

MGG 09005015

Laboratory Item Nos. 253  
254  
264  
265

A SUMMARY OF ENGINEERING PROPERTIES, SIZE AND COMPOSITION ANALYSES  
OF CORES FROM SUBMARINE SOIL MECHANICS PROJECT (SUBSOME).

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Geological Laboratory Branch  
Ocean Surveys Division  
Oceanographic Surveys Division

**EXPLANATION OF DATA PAGES  
CORE ANALYSIS SUMMARY SHEET  
Engineering Properties  
NAVOCEANO (EXP) 3167/18B (Rev. 1-63)**

Results of engineering properties, core analysis performed by the U. S. Naval Oceanographic Office Geological Laboratory are recorded on Core Analysis Summary Sheet Engineering Properties.

The following is a description of the terms employed on the Core Analysis Summary Sheet:

1. Cruise Number. A number assigned to each cruise for identification purposes.
2. Latitude. Expressed in degrees, minutes, and seconds.
3. Longitude. Expressed in degrees, minutes, and seconds.
4. Sample Number. A consecutive number, commencing with 1, applied to each core taken successively throughout the cruise.
5. Date Taken. Day (GMT), month, and year.
6. Water Depth (m). The uncorrected sonic sounding recorded in meters.
7. Type Corer. Identified by the name of device employed.
8. Core Length(cm). Recorded in centimeters as observed in the laboratory.
9. Core Penetration (cm). Recorded in centimeters as observed in the field.
10. Subsample Depth in Core (cm). Interval of subsample as measured in centimeters from the top of the core.
11. Wet Unit Weight (g/cm<sup>3</sup>). The weight (solids plus water) per unit volume of the sediment mass.
12. Specific Gravity of Solids. The ratio of weight in air of a given volume of a sediment at 20°C to the weight in air of an equal volume of distilled water at 20°C.
13. Water Content (% dry weight). The ratio, in percent, of the weight of water in a given mass of the sediment sample to the weight of the solid particles.

14. Void Ratio. The ratio of the volume of void spaces to the volume of solid particles in the sediment sample as computed from Wet Unit Weight, Specific Gravity of Solids, and Water Content.

15. Saturated Void Ratio. The Void Ratio at 100 percent saturation as computed from Water Content and Specific Gravity of Solids.

$$\text{Saturated Void Ratio} = \frac{\text{Water Content} \times \text{Specific Gravity of Solids}}{100}$$

16. Porosity (%). The ratio, usually expressed as a percentage, of the volume of voids of a sediment mass to the total volume of the sediment mass.

17. Liquid Limit. Water Content, in percent, at which a pat of sediment cut by a groove of standard dimension will flow together for a distance of 1/2 inch under the impact of 25 blows in a standard liquid limit apparatus.

18. Plastic Limit. Water Content, in percent, at which a sediment will just begin to crumble when rolled into a thread approximately 1/8 inch in diameter.

19. Plasticity Index. The numerical difference between the Liquid Limit and Plastic Limit of the sediment mass.

20. Liquidity Index. The ratio, expressed in percentage, of (1) the natural water content of the sediment sample minus its Plastic Limit to (2) its Plasticity Index.

21. Compression Index. The slope of the linear portion of the Pressure-Void Ratio curve on a semi-log plot.

22. Compressive Strength. The load per unit area required to shear an unconfined, natural or remolded, sediment mass.

23. Cohesion. The shearing strength per unit area under zero externally applied load.

24. Sensitivity. The ratio of the natural to the remolded strength. It is a measure of the loss of strength due to remolding the sediment mass.

25. Angle of Internal Friction ( $^{\circ}$ ). The angle between the abscissa and the tangent of the curve representing the relationship of "shearing resistance" to "normal stress" acting within a sediment mass.

26. Activity. The ratio of the Plasticity Index to the clay fraction percentage ( $.002 \text{ mm}$ ) of the sediment mass.

- 11
27. Modulus of Elasticity. The ratio of stress to strain of the sediment mass.
28. Slump (%). The ratio, in percent, of the amount of height change immediately before the compressive strength test to the original height of a cylinder of sediment.

## EXPLANATION OF COMPUTER DATA SHEET SEDIMENT SIZE AND COMPOSITION

Results of sediment-size and -composition core analysis performed by the U. S. Naval Oceanographic Office Geological Laboratory are tabulated on Computer Data Sheet Sediment Size and Composition.

The following is an explanation of the terms employed on the Computer Data Sheet:

1. CRUISE. A number assigned to each cruise for identification purposes .
2. SAMPLE. A consecutive number applied to each core taken successively throughout the cruise .
3. LATITUDE. Expressed in degrees, minutes, and tenths of minutes .
4. LONGITUDE. Expressed in degrees, minutes, and tenths of minutes .
5. TAKEN. Date in month, day, and year that core was taken .
6. CORER TYPE. Number corresponding to sampling device code below.

1. Hydroplastic piston	6. Orange Peel
2. Hydroplastic gravity	7. Ewing
3. Kullenberg piston	8. Vibrocorer
4. Kullenberg gravity	9. Dredge
5. Phleger gravity	0. Other
7. LENGTH. Length of core recorded in centimeters as observed in the laboratory .
8. PENETRATION. Penetration of coring device recorded in centimeters as observed in the field .
9. DEPTH. The uncorrected sonic sounding recorded in meters .
10. ANALYZED. Date in month, day, and year that core was analyzed in the laboratory .
11. ID. NO.. Three digit laboratory project number followed by consecutive number assigned to each subsample analyzed .
12. INTERVAL. Interval of subsample as measured in centimeters from the top of the core .

13. MM. Particle diameter size intervals based on Wentworth size grades in millimeters.

14. PER. Percent of total sample weight within the given size interval.

15. GRAVEL, SAND, SILT, CLAY. Percent of total sample weight within the four size classes.

Class ranges are:  
Gravel - coarser than 2 mm  
Sand - 2 to 0.0625 mm  
Silt - 0.0625 to 0.0039 mm  
Clay - finer than 0.0039 mm

16. MEAN (MM). The geometric mean of the distribution expressed in millimeters.

17. MEAN (PHI). The logarithmic mean of the distribution expressed in phi units (-log<sub>2</sub> of the diameter in millimeters).

18. STAN DEV. Standard deviation. A measure of the degree of spread or dispersion of the distribution about the mean expressed in phi units.

$$\sigma = \sqrt{\sum f (X_i - \bar{X})^2 / 100}$$

19. SKEWNESS. A measure of the asymmetry of the distribution. Positive values denote skewness of the distribution toward the fine particles, negative values denote skewness toward the coarse particles. A normal distribution has a skewness of 0.

$$\alpha_3 = \frac{1}{100} \sigma^{-3} \sum f (X_i - \bar{X})^3$$

20. KURTOSIS. A measure of the peakedness of the distribution. Positive values denote a "leptokurtic" distribution, or a distribution more "peaked" than normal. Negative values denote a "platykurtic" distribution, or a distribution more "flat" than normal. A normal curve has a kurtosis of 0.

$$\alpha_4 = \frac{1}{100} \sigma^{-4} \sum f (X_i - \bar{X})^4 - 3$$

21. CACO<sub>3</sub>. Percent calcium carbonate of the total sample weight as determined by the insoluble residue method.

22. ORG CARBON. Percent organic carbon of the total sample weight as determined by the Allison method.

23. COLOR. Wet sediment color, based on the Geological Society of America Rock-Color Chart, as determined in the laboratory.
24. DOM MINERAL. Dominant mineral (s) comprising the sample assemblage.
25. SEC MINERAL. Secondary mineral (s) comprising the sample assemblage.

C. & G. S. 557

POTOMAC RIVER

PINEY POINT

38

15

10

4

1

(CONT'D CHART 558)

CORE LOCATION.

38

15

10

4

1

(CONT'D CHART 558)

38

15

10

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Stiles & Grimes  
DATE 29 June 1965

1. CRUISE NO.	4. SAMPLE NO.	253	B.S. /	7. TYPE CORER	2. V.C. - Gravity
2. LATITUDE	5	1	"	8. CORE LENGTH (cm)	203
3. LONGITUDE	0	1	"	9. CORER PENETRATION (cm)	276
10. SUBSAMPLE DEPTH IN CORE (cm)	0.5	5-10	10-15	15-20	20-30
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )				40-50	50-60
12. SPECIFIC GRAVITY OF SOLIDS				60-70	70-80
13. WATER CONTENT (% dry weight)	309.7	314.4	290.1	308.7	279.2
14. VOID RATIO				250.8	230.7
15. SATURATED VOID RATIO				220.5	210.3
16. POROSITY (%)				201.0	198.9
17. LIQUID LIMIT					204.6
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )					
			REMOULD (g/cm <sup>2</sup> )		
23. COHESION NATURAL (g/cm <sup>2</sup> )				6	15
			REMOULD (g/cm <sup>2</sup> )	6	7
24. SENSITIVITY				3	20
25. ANGLE OF INTERNAL FRICTION (°)				3	17
26. ACTIVITY				6	12
27. MODULUS OF ELASTICITY				2	8
28. SLUMP (%)				3	4
29. REMARKS				6	2
				3	5

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Stiles & Grimes  
DATE 29 June 1965

1. CRUISE NO.	4. SAMPLE NO.	253	3. B.S. /	7. TYPE CORER	P.V.C. - Gravity
2. LATITUDE	5.	"	6. DATE TAKEN (Day, month, year)	65	203
3. LONGITUDE	6.	"	7. WATER DEPTH (m)		276
10. SUBSAMPLE DEPTH IN CORE (cm)	100-110	110-120	120-130	130-140	140-150-160
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.25	1.28	1.29	1.27	1.26
12. SPECIFIC GRAVITY OF SOLIDS					1.28
13. WATER CONTENT (% dry weight)	21.8	207.8	188.3	182.6	192.8
14. VOID RATIO					2.54
15. SATURATED VOID RATIO					5.03
16. POROSITY (%)					5.05
17. LIQUID LIMIT					83.42
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{g/cm}^2$ )	( $\text{g/cm}^2$ )		32	53
23. COHESION NATURAL REMOULD	( $\text{g/cm}^2$ )	( $\text{g/cm}^2$ )	20	18	32
24. SENSITIVITY	/		10	16	25
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )				15	33
26. ACTIVITY				5	18
27. MODULUS OF ELASTICITY				3	2
28. SLUMP (%)					
29. REMARKS					

Top under pressure due to gas with  
Lost ~ 2" extremely soupy

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY

DATE 12 October 1965

1. CRUISE NO.	4. SAMPLE NO.	7. TYPE CORER
2. LATITUDE	5. DATE TAKEN (Day, month, year)	8. CORE LENGTH (cm)
3. LONGITUDE	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	10. -10	187-197
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )		
12. SPECIFIC GRAVITY OF SOLIDS		
13. WATER CONTENT (% dry weight)	33.5	188.7
14. VOID RATIO		180.5
15. SATURATED VOID RATIO		
16. POROSITY (%)		
17. LIQUID LIMIT	138.9	121.3
18. PLASTIC LIMIT	46.5	41.1
19. PLASTICITY INDEX	92.4	80.2
20. LIQUIDITY INDEX		78.6
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL REMOULD	( $\text{g/cm}^2$ )	( $\text{g/cm}^2$ )
23. COHESION NATURAL REMOULD	( $\text{g/cm}^2$ )	( $\text{g/cm}^2$ )
24. SENSITIVITY		
25. ANGLE OF INTERNAL FRICTION ( $\phi$ )		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (%)		
29. REMARKS	1. Strong H2S odor 2. 0-10 cm. very soupy	

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Sgt./C5 Eng. Grimes  
DATE 30 June 1965

1. CRUISE NO.	4. SAMPLE NO.	253	B.S. 3	7. TYPE CORER	P.V.C - Proton
2. LATITUDE	5.	DATE TAKEN (Day, month, year)	10 June 1965	8. CORE LENGTH (cm)	212
3. LONGITUDE	6.	WATER DEPTH (m)		9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0..10	10-20	20-30	30-40	40-50
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )				50-60	60-70
12. SPECIFIC GRAVITY OF SOLIDS				70-80	80-90
13. WATER CONTENT (%) dry weight)	349.7	299.2	280.6	236.7	219.4
14. VOID RATIO				216.2	209.2
15. SATURATED VOID RATIO				193.1	197.8
16. POROSITY (%)				202.3	193.4
17. LIQUID LIMIT					186.2
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )					35
	REMOULD	( $\text{kg/cm}^2$ )			
23. COHESION NATURAL ( $\text{kg/cm}^2$ )			/3		
	REMOULD	( $\text{kg/cm}^2$ )			
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION ( $\phi$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY States & Geosciences  
DATE 30 June 1965

1. CRUISE NO.	4. SAMPLE NO.	253	8. S. 3	7. TYPE CORER	P. V.C. - Piston
2. LATITUDE	5. DATE TAKEN (day, month, year)	10 JUNE 1965		8. CORE LENGTH (cm)	212
3. LONGITUDE	6. WATER DEPTH (m)				
10. SUBSAMPLE DEPTH IN CORE (cm)	120-130	130-140	140-150	150-160	160-170
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.25	1.26	1.26	1.26	1.27
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	74.8	83.8	81.2	79.4	87.1
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )				53	66
REMOULD (g/cm <sup>2</sup> )					
23. COHESION NATURAL (g/cm <sup>2</sup> )	27	26	34	24	27
REMOULD (g/cm <sup>2</sup> )				16	7
24. SENSITIVITY					8
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS	1. Gas at top, sediment bubbled when cap was removed 2. Very soupy 3. At 120 heard gas escaping				

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY S.F.-1/e5  
DATE 20 Jul 4 1965

1. CRUISE NO.	4. SAMPLE NO.	253	3. 5. 4	7. TYPE CORER	P.V.C.
2. LATITUDE	5°	1'	5. DATE TAKEN (Day, month, year)	8. CORE LENGTH (cm)	252
3. LONGITUDE	6	-	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10	10-20	20-30	30-40	40-50
11. WET UNIT WEIGHT (g/cm³)	1.16	1.15	1.18	1.20	1.21
12. SPECIFIC GRAVITY OF SOLIDS	2.58				
13. WATER CONTENT (%) dry weight)	305.2	325.2	270.9	262.6	259.6
14. VOID RATIO	8.49				
15. SATURATED VOID RATIO	8.40				
16. POROSITY (%)	89.46				
17. LIQUID LIMIT	111.0	105.9			
18. PLASTIC LIMIT	39.3	41.4			
19. PLASTICITY INDEX	71.7	64.5			
20. LIQUIDITY INDEX	111	106			
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)					
	REMOULD (g/cm²)				
23. COHESION NATURAL (g/cm²)	1.60	6.75	3.37	2.53	4.22
	REMOULD (g/cm²)	0.84	0.84	0.84	0.84
24. SENSITIVITY	2	8	4	3	5
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Siti/cS  
DATE 20 Jul 4 1985

1. CRUISE NO.	4. SAMPLE NO.	5. DATE TAKEN (Day, month, year)	6. WATER DEPTH (m)	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)
2. LATITUDE °	'	"				
3. LONGITUDE °	'	"				
10. SUBSAMPLE DEPTH IN CORE (cm)	120-130	130-140	150-160	160-170	170-180-190	200-210-220
11. WET UNIT WEIGHT (g/cm³)	1.30	1.32	1.34	1.28	1.27	1.28
12. SPECIFIC GRAVITY OF SOLIDS		2.59				
13. WATER CONTENT (% dry weight)	159.4	144.1	152.2	182.3	183.3	168.7
14. VOID RATIO		3.89				
15. SATURATED VOID RATIO		3.94				
16. POROSITY (%)		79.55				
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOULD (g/cm²)						
23. COHESION NATURAL (g/cm²) REMOULD (g/cm²)	28.61	11.27	25.24	19.33	13.50	27.77
24. SENSITIVITY	4.22	7.59	5.06	1.69	3.37	5.06
25. ANGLE OF INTERNAL FRICTION (°)	7	5	5	3	11	4
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (cm)						
29. REMARKS						

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY StilesDATE 20 July 1965

1. CRUISE NO.	4. SAMPLE NO.	7. TYPE CORER
2. LATITUDE °	5. DATE TAKEN (Day, month, year)	8. CORE LENGTH (cm)
3. LONGITUDE °	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	230.240.240.252	
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.29	1.28
12. SPECIFIC GRAVITY OF SOLIDS		
13. WATER CONTENT (%) dry weight)	178.9	169.0
14. VOID RATIO		
15. SATURATED VOID RATIO		
16. POROSITY (%)		
17. LIQUID LIMIT		
18. PLASTIC LIMIT		
19. PLASTICITY INDEX		
20. LIQUIDITY INDEX		
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )	REMOULD (g/cm <sup>2</sup> )	
23. COHESION NATURAL (g/cm <sup>2</sup> )	REMOULD (g/cm <sup>2</sup> )	
24. SENSITIVITY		
25. ANGLE OF INTERNAL FRICTION (°)		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (cm)		
29. REMARKS		
		4. Strong H <sub>2</sub> S odor
		5. Air bubbles 170 - 175 cm.
		1. Water leakage at top & bottom
		2. Top very soupy
		3. Top full of gas under pressure

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE PINEPT CORE TYPE 2	SAMPLE LENGTH	LATITUDE		DEPTH		LONGITUDE		DEPTH		PER		PER	
		197.0	10° N PENETRATION	276.0	25.5	253	3	90.0- 90.0	253	4	110.0-120.0	253	
ID. NO.	253	1	253	2	50.0- 53.0 ✓	253	3	90.0- 90.0	253	4	110.0-120.0	253	5
INTERVAL	0.0- 10.0	20.0- 30.0	40.0- 50.0	60.0- 70.0	80.0- 90.0	100.0- 110.0	120.0- 130.0	130.0- 140.0	140.0- 150.0	150.0- 160.0	160.0- 170.0	170.0- 180.0	180.0- 190.0
MM	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER	PER
4.00000	4.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000	3.00000
2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000	2.00000
1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000	0.50000
0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000	0.25000
0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500	0.12500
0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250	0.06250
0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125	0.03125
0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562	0.01562
0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781	0.00781
0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391	0.00391
0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200	0.00200
0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100	0.00100
0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050
0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012	0.00012
0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003
0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
MEAN (MM)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
MEAN (PHI)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
STAN DEV	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
SKEWNESS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
KURTOSIS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
CACO3	11.500	8.500	7.700	8.300	7.900	11.000	11.000	11.000	11.000	11.000	11.000	11.000	11.000
DRC CARBON	3.240	3.040	2.820	2.450	2.500	2.420	2.420	2.420	2.420	2.420	2.420	2.420	2.420
COLOR	5Y4/1	5Y4/1	5Y4/1	5G4/1	5G4/1	5G4/1	5G4/1	5G4/1	5G4/1	5G4/1	5G4/1	5G4/1	5G4/1
DUM MINERAL													
SEC MINERAL													

INTERVAL	MM	PER	PER	PER	PER
10. NO.	253	7	253	8	190.0-197.0
150.0-170.0	2.0000	0.000	0.000	0.000	0.000
	2.0000	0.149	0.149	0.473	0.473
	1.0000	0.594	0.594	0.236	0.236
	3.0500	0.297	0.297	0.236	0.236
	2.2500	0.446	0.446	0.473	0.473
	2.1250	0.149	0.149	0.236	0.236
	2.0625	0.149	0.149	0.236	0.236
	2.0312	0.000	0.000	0.000	0.000
	2.0156	13.522	5.910	5.910	5.910
	2.0078	0.000	0.000	0.000	0.000
	2.0039	29.718	21.277	21.277	21.277
	2.0020	0.000	0.000	0.000	0.000
	2.0010	24.517	23.551	23.551	23.551
	2.0005	11.144	16.548	16.548	16.548
	2.0000-	19.316	24.823	24.823	24.823
GRAVEL		0.149	0.473	0.473	0.473
SAND		1.634	1.418	1.418	1.418
SILT		43.239	27.187	27.187	27.187
CLAY		54.978	70.922	70.922	70.922
MEAN (MM)		0.0024	0.0015	0.0015	0.0015
MEAN (PHI)		3.7551	3.3345	3.3345	3.3345
STAN DEV		2.2429	2.1050	2.1050	2.1050
SKEWNESS		-0.4459	-0.8157	-0.8157	-0.8157
KURTOSIS		1.5477	4.4918	4.4918	4.4918
CASO3		5.900	6.800	6.800	6.800
DRS CARBON		2.550	2.540	2.540	2.540
COLOR		53Y4/1	56Y4/1	56Y4/1	56Y4/1
DUM MINERAL					
SEC MINERAL					

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 10/30/65  
ANALYZED 30/09/

TAKEN 10/30/65  
ANALYZED 30/09/

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE PINEPT CORE TYPE 1	SAMPLE LENGTH	LATITUDE PENETRATION	0.0 N 317.5 DEPTH 25.6	TAKEN 10/06/65		ANALYZED 20/07/6	
				PER	PER		
ID. NO.	253	14	253 15	253 16	253 17	253 18	253 19
INTERVAL	0.0- 13.0	10.0- 20.0	40.0- 50.0	50.0- 60.0	100.0- 110.0	100.0- 110.0	100.0- 110.0
MM	PER	PER	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.212	0.000	0.000	0.000	0.106	0.139
1.0000	0.000	0.212	0.222	0.202	0.202	0.530	0.139
0.5000	0.197	0.212	0.222	0.222	0.222	1.059	0.139
0.2500	0.187	0.212	0.222	0.202	0.202	0.530	0.139
0.1250	0.187	0.212	0.222	0.202	0.202	0.106	0.139
0.0625	0.187	0.212	0.222	0.202	0.202	0.106	0.139
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	15.140	7.627	7.982	3.226	12.288	6.371	0.000
0.0078	2.000	2.000	0.000	0.000	0.000	0.000	0.000
0.0039	27.103	31.780	25.499	34.274	21.716	24.238	0.000
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	29.937	24.364	24.390	17.137	15.890	19.391	0.000
0.0005	12.150	7.415	13.304	17.137	22.246	21.468	0.000
0.0000-	14.953	27.542	27.716	27.218	25.424	27.701	0.000
GRAVEL	0.000	0.212	0.000	0.000	0.000	0.106	0.139
SAND	0.748	1.059	1.109	1.008	2.331	0.693	0.000
SILT	42.243	39.407	33.481	37.500	34.004	30.609	0.000
CLAY	57.009	59.322	59.410	61.492	53.559	68.560	0.000
MEAN (MM)	0.0024	0.0019	0.0016	0.0019	0.0019	0.0014	0.0014
MEAN (PHI)	8.7168	9.0763	9.2694	9.3206	9.3893	9.4584	9.4584
STAN DEV	2.0107	2.1079	2.0536	1.9443	2.4187	1.9836	1.9836
SKEWNESS	-0.2415	-0.4355	-0.4662	-0.4123	-0.6285	-0.5642	-0.5642
KURTOSIS	-0.2540	1.6849	1.1751	1.3567	1.8883	1.9716	1.9716
CAD3	9.400	9.100	7.600	7.800	7.400	6.600	6.600
ORG CARBON	3.720	3.540	3.480	3.240	2.480	2.460	2.460
COLOR	562/1	56Y4/1	53Y4/1	55Y4/1	5GY4/1	5GY4/1	5GY4/1
DUM MINERAL							
SEC MINERAL							

20

ID. NO.	253	20	253	21
INTERVAL	200.0-210.0		230.0-242.0	
MM	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.000
1.0000	0.072	0.123	0.123	0.123
0.5000	0.362	0.362	0.362	0.362
0.2500	0.072	0.123	0.123	0.123
0.1250	0.072	0.123	0.123	0.123
0.0625	0.072	0.123	0.123	0.123
0.0312	0.000	0.000	0.000	0.000
0.0156	0.130	0.371	0.371	0.371
0.0078	0.000	0.000	0.000	0.000
0.0039	24.275	27.744	27.744	27.744
0.0020	0.000	0.000	0.000	0.000
0.0010	18.478	17.879	17.879	17.879
0.0005	17.391	13.496	13.496	13.496
0.0000-	30.072	25.894	25.894	25.894
GRAVEL	0.000	0.000	0.000	0.000
SAND	0.652	0.617	0.617	0.617
SILT	33.406	37.115	37.115	37.115
CLAY	55.942	62.269	62.269	62.269
MEAN (MM)	0.0015	0.0017	0.0017	0.0017
MEAN (PHI)	0.3696	0.2238	0.2238	0.2238
STAN DEV	2.0653	2.0397	2.0397	2.0397
SKEWNESS	-0.4356	-0.3502	-0.3502	-0.3502
KURTOSIS	0.5427	0.1366	0.1366	0.1366
CACUS	5.900	7.200	7.200	7.200
ORG CARBON	2.380	2.350	2.350	2.350
COLOR	5GY4/1	5GY4/1	5GY4/1	5GY4/1
DOM MINERAL				
SEC MINERAL				

945 000

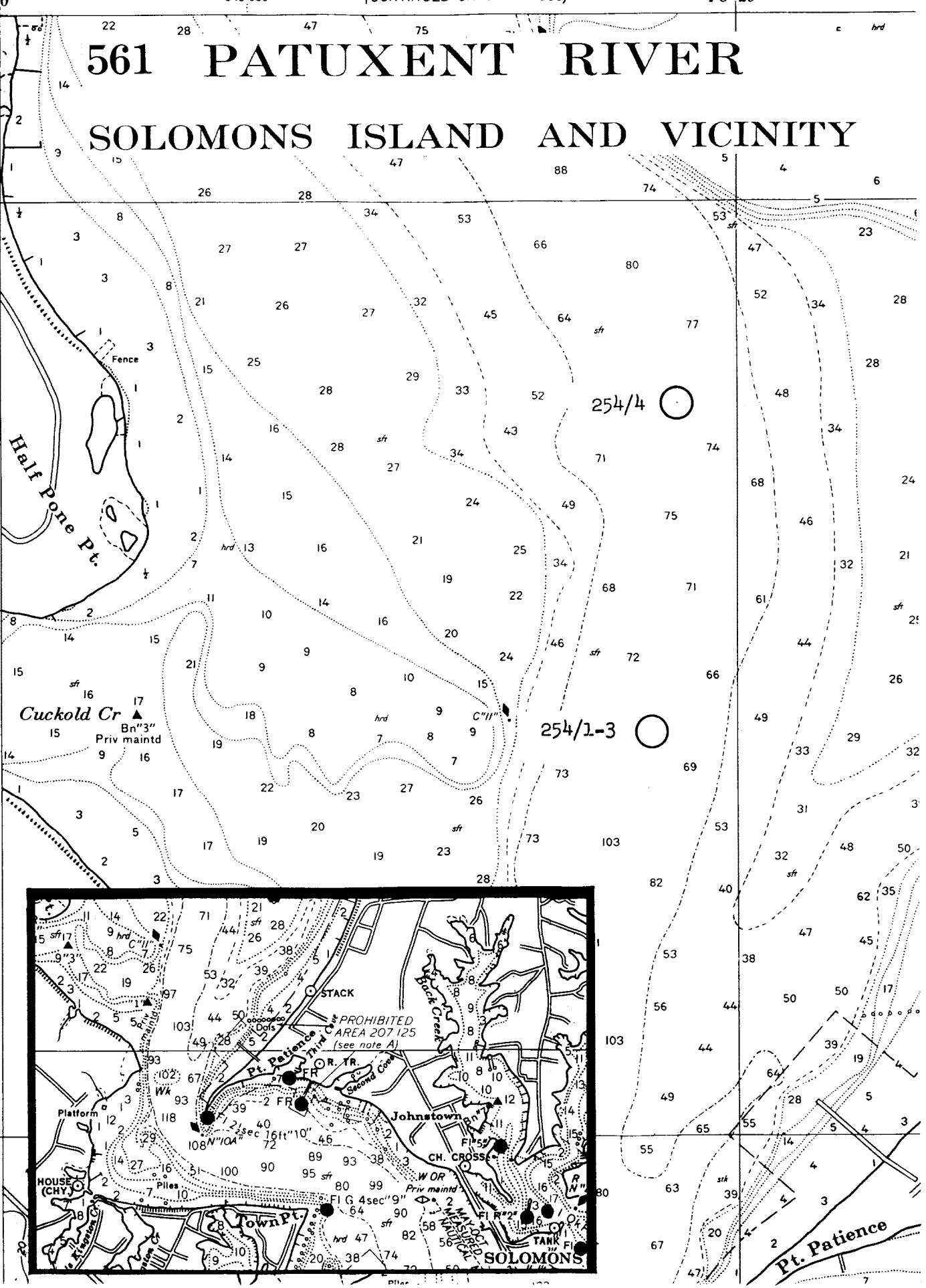
(CONTINUED ON CHART 553)

76°29'

**561 PATUXENT RIVER  
SOLOMONS ISLAND AND VICINITY**

21'-

(CONTINUED ON CHART 553)



PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY R GrimesDATE 27 July 1965

1. CRUISE NO.	4. SAMPLE NO. <b>254</b> B. S. 1		7. TYPE CORER	P.V.C. - Gravity
2. LATITUDE	5. DATE TAKEN (Day, month, year) <b>18 June 1965</b>		8. CORE LENGTH (cm)	<b>157</b>
3. LONGITUDE	6. WATER DEPTH (m) <b>24.69</b>		9. CORER PENETRATION (cm)	<b>274.32</b>
10. SUBSAMPLE DEPTH IN CORE (cm)	<b>0-10</b>		10. 60-70	<b>80-90</b>
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	<b>1.15</b>		11. 124	<b>1.30</b>
12. SPECIFIC GRAVITY OF SOLIDS			12. 1.41	
13. WATER CONTENT (% dry weight)	<b>25.16</b>		13. 144.60	<b>122.28</b>
14. VOID RATIO			14. 17.77	<b>136.53</b>
15. SATURATED VOID RATIO			15. 232.54	
16. POROSITY (%)			16. 189.81	
17. LIQUID LIMIT			17. 201.26	
18. PLASTIC LIMIT			18. 176.33	
19. PLASTICITY INDEX			19. 144.60	
20. LIQUIDITY INDEX			20. 112.83	
21. COMPRESSION INDEX FROM LL			21. 122.28	
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )			22. 13.29	
REMOULD (g/cm <sup>2</sup> )			22. 27.35	
23. COHESION NATURAL (g/cm <sup>2</sup> )	<b>4.99</b>		23. 14.06	
REMOULD (g/cm <sup>2</sup> )	<b>2.46</b>		23. 12.02	
24. SENSITIVITY	<b>2</b>		24. 5.48	
	<b>3</b>		24. 4.15	
	<b>3</b>		24. 9.14	
25. ANGLE OF INTERNAL FRICTION (°)			25. 3	<b>3</b>
26. ACTIVITY			26. 3	
27. MODULUS OF ELASTICITY			27. 3	
28. SLUMP (in)			28. 3	
29. REMARKS			29. 3	

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY A. Grimes  
DATE 27 July 1965

1. CRUISE NO.	4. SAMPLE NO.	2. 54	3. 1	7. TYPE CORER	8. CORE LENGTH (cm)	9. CORER PENETRATION (cm)
2. LATITUDE	°	'	"	5. DATE TAKEN (day, month, year)	18 JUNE 1965	157
3. LONGITUDE	°	'	"	6. WATER DEPTH (m)	24.69	
10. SUBSAMPLE DEPTH IN CORE (cm)	120-130	130-140	140-150	150-157		
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.55	1.60				
12. SPECIFIC GRAVITY OF SOLIDS						
13. WATER CONTENT (%) dry weight)	70.21	60.11	62.43	49.04		
14. VOID RATIO						
15. SATURATED VOID RATIO						
16. POROSITY (%)						
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )				
23. COHESION	NATURAL REMOULD	(g/cm <sup>2</sup> ) (g/cm <sup>2</sup> )	32.3	39.0		
24. SENSITIVITY			8.7	12.4		
25. ANGLE OF INTERNAL FRICTION (°)						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (in)						
29. REMARKS	1. Water on top 2. Strong H <sub>2</sub> S odor					

Sheet 2 of 1

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Ecksteiner  
 DATE 12 October 1965

1. CRUISE NO.	4. SAMPLE NO.	254	3	7. TYPE CORER	P.V.C.
2. LATITUDE	5.	DATE TAKEN (Day, month, year)	18 JUNE 1965	8. CORE LENGTH (cm)	270
3. LONGITUDE	6.	WATER DEPTH (m)	24.69	9. CORER PENETRATION (cm)	260-270
10. SUBSAMPLE DEPTH IN CORE (cm)	0-10				
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )					
12. SPECIFIC GRAVITY OF SOLIDS					
13. WATER CONTENT (% dry weight)	25.71				
14. VOID RATIO					
15. SATURATED VOID RATIO					
16. POROSITY (%)					
17. LIQUID LIMIT	124.98				
18. PLASTIC LIMIT	39.93				
19. PLASTICITY INDEX	85.1				
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )					
	REMOULD (g/cm <sup>2</sup> )				
23. COHESION NATURAL (g/cm <sup>2</sup> )					
	REMOULD (g/cm <sup>2</sup> )				
24. SENSITIVITY					
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (")					
29. REMARKS					

Strong H<sub>2</sub>S odor

Sheet 1 of 2

PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

ANALYZED BY H. Grimes  
DATE 28 July 1965

1. CRUISE NO.		4. SAMPLE NO. <b>254</b>	3. S. #	7. TYPE CORER	P. W.C. : Piston
2. LATITUDE	°      °      '	5. DATE TAKEN (DAY, month, year)	<b>18 June 1965</b>	8. CORE LENGTH (cm)	<b>187</b>
3. LONGITUDE	°      °      '	6. WATER DEPTH (m)	<b>24.69</b>	9. CORER PENETRATION (cm)	<b>254.00</b>
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	<b>1.20</b>	<b>1.22</b>	<b>1.24</b>	<b>1.29</b>	<b>1.25</b>
12. SPECIFIC GRAVITY OF SOLIDS	<b>2.57</b>			<b>2.62</b>	<b>2.60</b>
13. WATER CONTENT (% dry weight)	<b>257.57</b>	<b>239.28</b>	<b>225.89</b>	<b>211.39</b>	<b>201.91</b>
14. VOID RATIO	<b>6.34</b>			<b>4.35</b>	<b>5.05</b>
15. SATURATED VOID RATIO	<b>6.15</b>			<b>4.23</b>	<b>4.91</b>
16. POROSITY (%)	<b>86.38</b>			<b>81.31</b>	<b>83.47</b>
17. LIQUID LIMIT				<b>85.1</b>	
18. PLASTIC LIMIT				<b>29.4</b>	
19. PLASTICITY INDEX				<b>55.7</b>	
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL	(g/cm <sup>2</sup> )				
	REMOULD	(g/cm <sup>2</sup> )			
23. COHESION	NATURAL (g/cm <sup>2</sup> )	<b>18.70</b>	<b>23.20</b>	<b>19.48</b>	<b>24.47</b>
	REMOULD (g/cm <sup>2</sup> )	<b>7.03</b>	<b>5.41</b>	<b>7.45</b>	<b>7.45</b>
24. SENSITIVITY		<b>2</b>	<b>3</b>	<b>3</b>	<b>4</b>
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in.)					
29. REMARKS					

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY H. Grimes  
DATE 28 July 1965

1. CRUISE NO.	4. SAMPLE NO. <b>254</b>		<b>B.S. 4</b>		7. TYPE CORER <b>P.V.C. Piston</b>
2. LATITUDE	0	'	"	"	8. CORE LENGTH (cm) <b>187</b>
3. LONGITUDE	0	'	"	"	9. CORER PENETRATION (cm) <b>254.00</b>
10. SUBSAMPLE DEPTH IN CORE (cm)	<b>120-130/30-40</b>		140-150/150-160	160-170/170-180	
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	<b>1.37</b>		1.32	1.39	
12. SPECIFIC GRAVITY OF SOLIDS			<b>2.61</b>	2.60	
13. WATER CONTENT (%) dry weight)	<b>141.91</b>		123.54	134.99	140.19
14. VOID RATIO			<b>3.75</b>	3.06	
15. SATURATED VOID RATIO			<b>5.66</b>	3.07	
16. POROSITY (%)			<b>78.94</b>	75.37	
17. LIQUID LIMIT					<b>75.6</b>
18. PLASTIC LIMIT					<b>31.0</b>
19. PLASTICITY INDEX					<b>44.6</b>
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )					
REMOULD (g/cm <sup>2</sup> )					
23. COHESION NATURAL (g/cm <sup>2</sup> )	<b>30.30</b>				<b>22.01</b>
REMOULD (g/cm <sup>2</sup> )	<b>9.14</b>				<b>12.02</b>
24. SENSITIVITY	<b>3</b>		<b>2</b>	<b>4</b>	
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS	1. Water on top and bottom of sample 2. Slight H <sub>2</sub> S odor 3. 0-100 cm. analyses were performed on 28 July 1965 " 100-187cm. " 29 July 1965				

SPECIMENT SIZE AND COMPOSITION DATA

TAKEN 18/06/65  
ANALYZED 1/07/65

254 6  
130.0-110.0

PER

4.0000	0.000	0.000	0.000
2.0000	1.718	0.000	0.190
1.0000	3.436	0.000	0.190
0.5000	1.718	0.060	0.190
0.2500	1.718	0.000	0.190
0.1250	1.718	0.000	0.190
0.0625	6.872	0.000	0.571
0.0312	6.006	0.000	0.000
0.0156	10.653	0.000	10.476
0.0078	0.000	0.000	0.000
0.0039	20.619	0.000	28.571
0.0020	0.000	0.000	0.000
0.0010	25.773	0.000	24.762
0.0005	1.718	0.000	6.667
0.0000	24.055	0.000	20.000

	GRAVEL	SAND	SILT	CLAY	C. C.L.C	0.170
	1.718	0.000	0.190	0.000	0.000	41.056
	15.464	0.000	9.332	9.462	29.658	23.853
	31.271	0.000	39.048	38.462	24.715	
	51.546	0.000	51.429	52.137	45.627	34.923

MEAN (MM)	0.0045	0.0030	0.0130
MEAN (PHI)	7.8024	8.3762	6.2700
STAN DEV	3.4569	2.5098	3.5654
SKEWNESS	-0.4825	-0.3361	0.0516

	<i>KURTOSIS</i>	<i>SKEWNESS</i>	<i>SE</i>	<i>t</i>	<i>p</i>
<i>CAC03</i>	0.164	0.000	0.000	-1.274	0.228
<i>ORG CARBON</i>		0.000	0.000		0.000
<i>COLOR</i>		3.660	3.640	2.780	2.110

ID. NO.	254	254	254	254	254	254	254
INTERVAL	120.0-130.6	130.6-140.0	150.6-157.0	150.6-157.0	150.6-157.0	150.6-157.0	150.6-157.0
MM	PER						
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.455	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.455	0.139	0.139	0.139	0.093	0.093	0.093
0.5000	2.727	2.774	2.774	2.774	2.788	2.788	2.788
0.2500	17.273	17.337	17.337	17.337	26.022	26.022	26.022
0.1250	9.091	22.885	22.885	22.885	24.628	24.628	24.628
C.0625	36.909	8.322	8.322	8.322	17.658	17.658	17.658
C.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C.0156	5.455	2.774	2.774	2.774	7.435	7.435	7.435
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C.0039	8.636	13.176	13.176	13.176	6.506	6.506	6.506
C.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
C.0010	8.636	15.950	15.950	15.950	6.970	6.970	6.970
0.0005	4.545	4.161	4.161	4.161	0.929	0.929	0.929
0.0000-	11.818	12.483	12.483	12.483	6.570	6.570	6.570
GRAVEL	0.455	0.000	0.000	0.000	0.000	0.000	0.000
SAND	60.455	51.456	51.456	51.456	71.190	71.190	71.190
SILT	14.091	15.950	15.950	15.950	13.941	13.941	13.941
CLAY	25.000	32.594	32.594	32.594	14.870	14.870	14.870
MEAN (MM)	0.0276	0.0197	0.0197	0.0197	0.0585	0.0585	0.0585
MEAN (PHI)	5.1773	5.6650	5.6650	5.6650	4.0957	4.0957	4.0957
STAN DEV	3.5917	3.8073	3.8073	3.8073	3.1562	3.1562	3.1562
SKEWNESS	0.3027	0.1317	0.1317	0.1317	0.5969	0.5969	0.5969
KURTOSIS	-1.0599	-1.5621	-1.5621	-1.5621	0.1450	0.1450	0.1450
CACO3	0.000	0.000	0.000	0.000	0.000	0.000	0.000
ORG CARBON	1.240	1.190	1.190	1.190	1.210	1.210	1.210
COLOR							
DOM MINERAL							
SEC MINERAL							

N. - 109005015

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 18/06/65  
ANALYZED 1/07/65

CRUISE COCR TYPE 1	SAMPLE LENGTH	LATITUDE		C.C.		LONGITUDE		C. 0.0	
		187.0	187.0	PENETRATION	254.0	DEPTH	24.7	PER	PER
ID. NO. INTERVAL	254 10 0.0- 10.0	254 11 10.0- 20.0	254 12 30.0- 40.0	254 13 50.0- 60.0	254 14 70.0- 80.0	254 15 90.0-100.0			

MM	PER	PER	PER	PER	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.105	0.361	0.081	0.073	0.000	0.000
1.0000	0.137	0.063	0.527	2.166	0.081	0.363	0.000	0.000	0.000
0.5000	0.137	0.316	0.527	2.166	0.406	0.727	0.000	0.000	0.000
0.2500	0.137	0.063	0.105	0.722	0.406	0.363	0.000	0.000	0.000
0.1250	0.686	0.632	1.055	0.722	2.029	2.544	0.000	0.000	0.000
0.0625	2.058	3.161	5.274	4.693	8.929	7.267	0.000	0.000	0.000
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	15.226	16.119	12.764	12.635	16.234	17.805	0.000	0.000	0.000
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	20.576	23.072	22.679	21.661	16.646	19.985	0.000	0.000	0.000
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	28.121	29.284	26.371	25.632	22.321	21.076	0.000	0.000	0.000
0.0005	5.487	11.378	8.966	8.664	8.523	7.631	0.000	0.000	0.000
0.0000-	27.435	19.912	21.624	20.578	24.351	22.166	0.000	0.000	0.000
GRAVEL	0.000	0.000	0.165	0.361	0.081	0.073	0.000	0.000	0.000
SAND	3.155	4.235	7.489	10.469	11.851	11.265	0.000	0.000	0.000
SILT	35.802	39.191	35.443	34.296	32.873	37.791	0.000	0.000	0.000
CLAY	61.043	56.574	56.962	54.874	55.195	50.872	0.000	0.000	0.000
MEAN (MM)	0.0021	0.0025	0.0027	0.0034	0.0031	0.0035	0.000	0.000	0.000
MEAN (PHI)	8.8745	8.6321	8.5475	8.2184	8.3263	8.1548	0.000	0.000	0.000
STAN DEV	2.3309	2.3380	2.5617	3.0030	2.8145	2.8172	0.000	0.000	0.000
SKENNESS	-0.3384	-0.3061	-0.4347	-0.5510	-0.2994	-0.2875	0.000	0.000	0.000
KURTOSIS	-0.1608	-0.2690	0.4393	0.8460	-0.6790	-0.4863	0.000	0.000	0.000
CACCO	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
CRG CARBON	3.540	3.080	3.120	3.080	3.120	3.120	0.000	0.000	0.000
CCLCR									
DOM MINERAL									
SEC MINERAL									

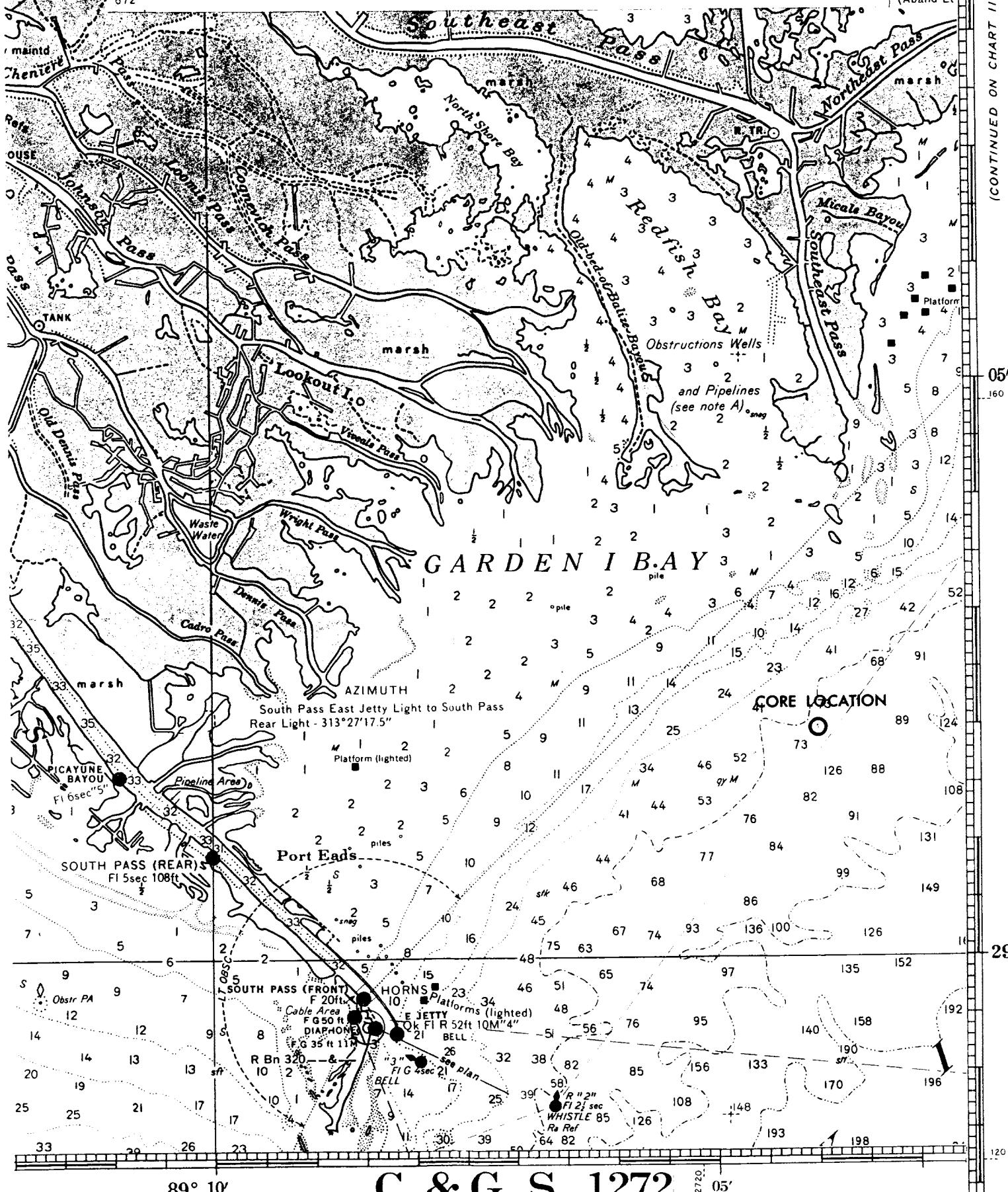
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# MISSISSIPPI RIVER DELTA

*D<sub>3</sub>*  
and Pipeline  
NE PASS  
TOWER  
(Aband Lt)

(CONTINUED ON CHART 1115)



C. & G. S. 1272

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Grimes  
DATE 17 August 1965

Sheet 1 of 2

Str. / es 4'

1. CRUISE NO.	4. SAMPLE NO.	264	B. S. 1	7. TYPE CORER	P.V.C. Gravity
2. LATITUDE 29° 1.7'	5. DATE TAKEN (day, month, year)	8 August 1965	8	8. CORE LENGTH (cm)	211
3. LONGITUDE 89° 42' W	6. WATER DEPTH (m)	22.9	12	9. CORER PENETRATION (cm)	5
10. SUBSAMPLE DEPTH IN CORE (cm)	0-11	11-18	18-30	30-37	37-60
11. WET UNIT WEIGHT (g/cm³)	1.40	1.40	1.41	1.29	1.35
12. SPECIFIC GRAVITY OF SOLIDS	2.68				1.39
13. WATER CONTENT (% dry weight)	126.8	127.7	141.2	113.8	114.2
14. VOID RATIO	3.25				105.0
15. SATURATED VOID RATIO	3.26				
16. POROSITY (%)	76.47				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL		2.5			
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)					
REMOULD (g/cm²)					
23. COHESION NATURAL (g/cm²)	14.76	13	12.66	13.36	14.76
REMOULD (g/cm²)	4.92		5.62	2.11	9.84
24. SENSITIVITY	3		2	6	2
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS	Top 10 cm. soupy				

Sheet 2 of 2

Stiles E  
ANALYZED BY Grimes  
DATE 17 August 1965

CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

PRNC-NAVOCANO-3167/18 B (4-63)

1. CRUISE NO.	4. SAMPLE NO.	264	B. S. I	7. TYPE CORER	P.V.C. - Gravity
2. LATITUDE 29° 17' N	5. DATE TAKEN (day, month, year)	8 August 1965	8. CORE LENGTH (cm)	211	
2. LONGITUDE 89° 42' W	6. WATER DEPTH (m)	22.9	9. CORE PENETRATION (cm)		
10. SUBSAMPLE DEPTH IN CORE (cm)	157.00	186.187-186.114.211			
11. WET UNIT WEIGHT (g/cm³)	1.38	1.40			
12. SPECIFIC GRAVITY OF SOLIDS	2.68				
13. WATER CONTENT (%) dry weight)	102.4				
14. VOID RATIO	2.94				
15. SATURATED VOID RATIO	2.74				
16. POROSITY (%)	74.62				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOULD (g/cm²)		62			
23. COHESION NATURAL (g/cm²) REMOULD (g/cm²)		22.50	31		
24. SENSITIVITY		2			
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (S)					
29. REMARKS					

Aug 81: Not entered into Burrows data base due to  
blocking of information.

PRNC-NAVOCEANO-3167/18 B (4-63)

CORE ANALYSIS SUMMARY SHEET  
ENGINEERING PROPERTIES

St. 1/CS 5

ANALYZED BY Grimes  
DATE 17 August 1965

1. CRUISE NO.	4. SAMPLE NO. <u>264</u>	5. DATE TAKEN (Day, month, year) <u>8 August 1965</u>	6. CORE LENGTH (cm) <u>19.8</u>	7. TYPE CORER <u>P.V.C. - Gravity</u>
2. LATITUDE <u>29° 20' N</u>	"	"	"	8. CORE LENGTH (cm) <u>19.8</u>
3. LONGITUDE <u>89° 37' W</u>	"	"	"	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	<u>0-13</u>	<u>13-20</u>	<u>20-30</u>	<u>30-37</u>
11. WET UNIT WEIGHT (g/cm³)	<u>1.39</u>	<u>1.35</u>	<u>1.35</u>	<u>1.35</u>
12. SPECIFIC GRAVITY OF SOLIDS				
13. WATER CONTENT (% dry weight)	<u>12.6</u>	<u>12.57</u>	<u>11.65</u>	<u>10.58</u>
14. VOID RATIO				
15. SATURATED VOID RATIO				
16. POROSITY (%)				
17. LIQUID LIMIT				
18. PLASTIC LIMIT				
19. PLASTICITY INDEX				
20. LIQUIDITY INDEX				
21. COMPRESSION INDEX FROM LL				
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)				
	REMOULD (g/cm²)			
23. COHESION NATURAL (g/cm²)	<u>9.14</u>	<u>12.66</u>	<u>14.06</u>	<u>18.28</u>
	REMOULD (g/cm²)			<u>17.58</u>
24. SENSITIVITY				
25. ANGLE OF INTERNAL FRICTION (°)				
26. ACTIVITY				
27. MODULUS OF ELASTICITY				
28. SLUMP (in)				
29. REMARKS	1. Sample dropped prior to analysis 2. Top 13 cm. very soupy			

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

Styles 4

ANALYZED BY Grimes  
DATE 17 August 1965

1. CRUISE NO.	4. SAMPLE NO. <b>264 B.S. 2</b>	7. TYPE CORER <b>D.V.C. Gravity</b>
2. LATITUDE <b>29° 20' N</b>	5. DATE TAKEN (day, month, year) <b>8 August 1965</b>	8. CORE LENGTH (cm) <b>186</b>
3. LONGITUDE <b>89° 39' W</b>	6. WATER DEPTH (m) <b>12.8</b>	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	<b>157.180 / 20-186</b>	
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )		
12. SPECIFIC GRAVITY OF SOLIDS		
13. WATER CONTENT (%) dry weight)	<b>10.3.9</b>	
14. VOID RATIO		
15. SATURATED VOID RATIO		
16. POROSITY (%)		
17. LIQUID LIMIT		
18. PLASTIC LIMIT		
19. PLASTICITY INDEX		
20. LIQUIDITY INDEX		
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL ( $\text{g/cm}^2$ ) REMOULD ( $\text{g/cm}^2$ )		
23. COHESION NATURAL ( $\text{g/cm}^2$ ) REMOULD ( $\text{g/cm}^2$ )		
24. SENSITIVITY		
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (in)		
29. REMARKS	L from 81: Not cored into Rostrum slate bank	

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

PRNC-NAVOCEANO-3167/18 B (4-63)

1. CRUISE NO.	4. SAMPLE NO.	264	B. 5. 3	7. TYPE CORER P. V. C. - Gravity
2. LATITUDE	29° 0' 1.9"	N	"	5. DATE TAKEN (Day, month, year) 8 AUGUST 1965
3. LONGITUDE	89° 40' 5" W	"	"	6. WATER DEPTH (m) 9.8
10. SUBSAMPLE DEPTH IN CORE (cm)	0-16	16-23	23-30	30-38
11. WET UNIT WEIGHT (g/cm³)	1.40	1.35	2.71	1.58
12. SPECIFIC GRAVITY OF SOLIDS				
13. WATER CONTENT (%) dry weight)	137.3	126.0		
14. VOID RATIO	3.59			
15. SATURATED VOID RATIO	3.72			
16. POROSITY (%)				
17. LIQUID LIMIT				
18. PLASTIC LIMIT				
19. PLASTICITY INDEX				
20. LIQUIDITY INDEX				
21. COMPRESSION INDEX FROM LL				
22. COMPRESSIVE STRENGTH NATURAL (g/cm²)				
	REMOULD (g/cm²)			
23. COHESION NATURAL (g/cm²)	13.36	16.17	17.58	24.61
	REMOULD (g/cm²)	5.62	5.62	6.33
24. SENSITIVITY		2	3	4
25. ANGLE OF INTERNAL FRICTION (°)		1	1	5
26. ACTIVITY			4	2
27. MODULUS OF ELASTICITY				
28. SLUMP (%)				
29. REMARKS 1. Vanessa to 140 cm. performed aboard the U.S.S. Shrike 10 August 1965				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY G. R. Grimes  
 DATE 10 August 1965

		4. SAMPLE NO. <u>264</u>		5. DATE TAKEN (Day, month, year) <u>8 August 1965</u>		6. WATER DEPTH (m) <u>12.8</u>		7. TYPE CORER <u>P.V.C. - Gravity</u>		8. CORE LENGTH (cm) <u>158</u>		9. CORER PENETRATION (cm) <u>151</u>	
1. CRUISE NO.													
2. LATITUDE	<u>29° 0' 1.9"</u>	N		"	"	"	"						
3. LONGITUDE	<u>89° 40' 1.4"</u>	W		"	"	"	"						
10. SUBSAMPLE DEPTH IN CORE (cm)													
11. WET UNIT WEIGHT (g/cm³)													
12. SPECIFIC GRAVITY OF SOLIDS													
13. WATER CONTENT (% dry weight)													
14. VOID RATIO													
15. SATURATED VOID RATIO													
16. POROSITY (%)													
17. LIQUID LIMIT													
18. PLASTIC LIMIT													
19. PLASTICITY INDEX													
20. LIQUIDITY INDEX													
21. COMPRESSION INDEX FROM LL													
22. COMPRESSIVE STRENGTH NATURAL REMOULD	(g/cm²)	(g/cm²)											
23. COHESION NATURAL REMOULD	(g/cm²)	(g/cm²)											
24. SENSITIVITY													
25. ANGLE OF INTERNAL FRICTION (°)													
26. ACTIVITY													
27. MODULUS OF ELASTICITY													
28. SLUMP (in)													
29. REMARKS													

Sheet 2 of 2  
 Styles &  
10 August 1965

Sheet 1 of 2

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

**Stiles 4'**  
ANALYZED BY Grimes  
DATE 9 August 1965

1. CRUISE NO.	4. SAMPLE NO.	264	B.S. 5	7. TYPE CORER	P.V.C.: Gravity
2. LATITUDE <b>29° 17' N</b>	5. DATE TAKEN (day, month, year)	<b>8 August 1965</b>		8. CORE LENGTH (cm)	<b>180</b>
3. LONGITUDE <b>89° 43' W</b>	6. WATER DEPTH (m)	<b>18.9</b>		9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	10-17	17-30	30-50	50-60	60-70
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.35	1.7A	1.7B	1.7C	1.7D
12. SPECIFIC GRAVITY OF SOLIDS	2.70				
13. WATER CONTENT (%) dry weight)	157.1	147.2	155.0		
14. VOID RATIO	3.91				
15. SATURATED VOID RATIO	3.97				
16. POROSITY (%)	79.63				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )					
	REMOULD (g/cm <sup>2</sup> )				
23. COHESION NATURAL (g/cm <sup>2</sup> )					
	REMOULD (g/cm <sup>2</sup> )				
24. SENSITIVITY	2	4	3	4	2
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

Sheet 2 of 2

Stiles

PRNC-NAVOCEANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY GrimesDATE 9 August 1965

1. CRUISE NO.	4. SAMPLE NO.	264	755	7. TYPE CORER	P. V.C. Gravity
2. LATITUDE 29° 17' N	5. DATE TAKEN (Day, month, year)	8 August 1965		8. CORE LENGTH (cm)	180
3. LONGITUDE 89° 43' W	6. WATER DEPTH (m)	18.9		9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	120-130-140	140-150	150-160	160-170	167-180
11. WET UNIT WEIGHT (g/cm³)	17.5	17.2	17.1	17.0	
12. SPECIFIC GRAVITY OF SOLIDS				2.72	
13. WATER CONTENT (% dry weight)				11.2.3	11.9.3
14. VOID RATIO				3.25	
15. SATURATED VOID RATIO				3.05	
16. POROSITY (%)			76.47		
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOULD (g/cm²)					
23. COHESION NATURAL (g/cm²) REMOULD (g/cm²)	26.01	14.06	18.98	21.09	16.87
24. SENSITIVITY	11.25	5.62	9.14	9.84	9.14
25. ANGLE OF INTERNAL FRICTION (°)					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (%)					
29. REMARKS					

1. Varies 30 to 160 cm performed aboard the USS Shrike 9 August 1965
2. Remaining analyses performed in New Orleans 16 August 1965
3. Top section very soupy (0-10)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Grimes  
DATE 11 and 16 Aug 1965

1. CRUISE NO.	4. SAMPLE NO.	264	3. 5. 9	7. TYPE CORER	P. V.C. Gravity
2. LATITUDE <b>29° 0' 95"</b>	5. DATE TAKEN (day, month, year)	<b>8 Aug 1965</b>		8. CORE LENGTH (cm)	<b>99</b>
3. LONGITUDE <b>89° 0' 405"</b>	6. WATER DEPTH (m)	<b>21.9</b>		9. CORER PENETRATION (cm)	
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 5	5 - 12	12 - 19	19 - 29	29 - 39
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.36	1.39	1.39	1.39	1.39
12. SPECIFIC GRAVITY OF SOLIDS	2.71				
13. WATER CONTENT (%) dry weight)	137.8	138.0			
14. VOID RATIO	3.75				
15. SATURATED VOID RATIO	3.73				
16. POROSITY (%)	78.95				
17. LIQUID LIMIT					
18. PLASTIC LIMIT					
19. PLASTICITY INDEX					
20. LIQUIDITY INDEX					
21. COMPRESSION INDEX FROM LL					
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )					
	REMOULD (g/cm <sup>2</sup> )				
23. COHESION NATURAL (g/cm <sup>2</sup> )				23.20	26.01
	REMOULD (g/cm <sup>2</sup> )			16.17	13.36
24. SENSITIVITY				1	1
25. ANGLE OF INTERNAL FRICTION (°)				1	1
26. ACTIVITY				2	1
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS	i. Varies 19 to 69 cm. Performed aboard U.S.S. Shrike 11 August 1965 ii. Remaining analyses performed in New Orleans 16 August 1965				

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Grimes  
DATE 12 Aug. 65 Oct 1965

**Stiles 6**

1. CRUISE NO.	4. SAMPLE NO.	264	B.S. 7	7. TYPE CORER	P. V. C.	- Gravity
2. LATITUDE <b>29° 0' 95"</b> N	5. DATE TAKEN (Day, month, year)	<b>8 August 1965</b>	"	8. CORE LENGTH (cm)	102	
3. LONGITUDE <b>89° 41' W</b>	6. WATER DEPTH (m)	<b>9.2</b>	"	9. CORER PENETRATION (cm)		
10. SUBSAMPLE DEPTH IN CORE (cm)	0-17	<b>17.27</b>	<b>37.37</b>	<b>47.50</b>	<b>56.56</b>	<b>63.66</b>
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	2.2 A	2.28	2.2 C	2.2 D	2.2 E	2.2 F
12. SPECIFIC GRAVITY OF SOLIDS				1.38	1.35	1.47
13. WATER CONTENT (% dry weight)						
14. VOID RATIO						
15. SATURATED VOID RATIO						
16. POROSITY (%)						
17. LIQUID LIMIT						
18. PLASTIC LIMIT						
19. PLASTICITY INDEX						
20. LIQUIDITY INDEX						
21. COMPRESSION INDEX FROM LL						
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ ) REMOULD ( $\text{kg/cm}^2$ )						
23. COHESION NATURAL ( $\text{kg/cm}^2$ ) REMOULD ( $\text{kg/cm}^2$ )		<b>20.39</b>	<b>9.84</b>	<b>22.50</b>	<b>16.87</b>	<b>21.80</b>
24. SENSITIVITY		4	4		2	3
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )						
26. ACTIVITY						
27. MODULUS OF ELASTICITY						
28. SLUMP (in)						
29. REMARKS	1. Void at top of barrel 2. 37-47 cm. No remold due to generator failure aboard ship 3. 47-102 cm. sent by freight for analyses					

SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 9/08/65  
CORER TYPE 2 ANALYZED 17/08/66

ID. NO. 264 1 264 2 264 3 264 4 264 5 264 6  
INTERVAL 30.0 - 35.0 30.0 - 60.0 60.0 - 90.0 90.0 - 120.0 120.0 - 150.0 150.0 - 180.0

PER PER PER PER

0.0000 2.0000 4.0000

0.5000  
0.2500  
0.0000  
-0.2500  
-0.5000

0.0312	0.0001	0.0001
0.0625	0.246	0.246
0.1225	0.625	0.625
0.2225	1.0	1.0
0.3225	1.375	1.375
0.4225	1.75	1.75
0.5225	2.125	2.125
0.6225	2.5	2.5
0.7225	2.875	2.875
0.8225	3.25	3.25
0.9225	3.625	3.625
1.0225	4.0	4.0

0.0126	14.203	14.742	14.212	10.242	13.851
0.0078	0.000	0.000	0.000	0.000	0.000
0.0039	4.261	15.971	14.212	23.342	14.898

6.00026	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
0.00010	<b>24.148</b>	<b>22.113</b>	<b>20.672</b>
0.00005	<b>14.205</b>	<b>7.371</b>	<b>7.752</b>

0.0000- 42.614 39.312 42.636 38.084 44.693 39.195

SAND	0.568	0.491	0.372	0.424
SILT	18.466	20.713	33.170	33.898
SILT		28.424	25.140	

MEAN (MM)	0.0011	0.0015	0.0013	0.0015	0.0012	0.0016
CLEAR	20.703	98.738	11.822	88.333	14.488	22.818
OVERCAST	20.703	98.738	11.822	88.333	14.488	22.818
OVERCAST	20.703	98.738	11.822	88.333	14.488	22.818

MEAN (PR1)	9.840	9.5439	9.3821	9.3242
STAN DEV	2.1069	2.2014	2.0583	2.0480
SKEWNESS	-0.5172	-0.3603	-0.4140	-0.2849

ORG CARBON  
COLOR 1.170  
5Y 3/2 1.160  
5Y 2/2 1.170  
N2 1.190  
N4 TGN2 1.170  
SYR4/1 1.085

ID. NO. 264  
INTERVAL 18C.0-21C.

MM	PER	MM	PER	MM	PER
4.0000	0.00	2.0000	0.00	1.0000	0.00
0.5000	0.00	0.2500	0.00	0.1250	0.175
0.0625	0.175	0.0312	0.00	0.0156	27.098
0.0078	0.00	0.0039	15.734	0.0020	0.00
0.0010	18.357	0.0005	6.119	0.0000-	32.343

GRAVEL  
SAND  
SILT  
CLAY

MEAN (MM) 0.0023  
MEAN (PHI) 8.7867  
STAN DEV 2.4413  
SKENNESS -0.1311  
KURTOSIS -1.4727

CACO<sub>3</sub> 8.000  
ORG CARBON 1.170  
COLOR 5YR4/1  
DOM MINERAL  
SEC MINERAL

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 6/08/65  
ANALYZED 17/08/66CRUISE  
CROCKER TYPE 2SAMPLE  
LENGTHLATITUDE 25° N  
PENETRATION 285.6  
DEPTH 19.8ID. NO.  
INTERVAL264 8  
5.5 - 30.0  
264 9  
30.0 - 60.0  
264 10  
60.0 - 90.0  
264 11  
90.0 - 120.0  
264 12  
120.0 - 150.0  
264 13  
150.0 - 180.0

MM PER PER PER PER PER PER

4.0000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2.0000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1.0000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.5000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.2500	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.1250	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0625	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0312	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0156	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0078	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0039	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0020	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0010	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0005	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
0.0000	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
GRAVEL	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
SAND	0.491	0.442	0.398	0.850	0.648	0.693
SILT	28.256	37.611	22.908	28.329	52.996	18.476
CLAY	71.252	61.947	76.693	70.822	45.356	80.831
MEAN (MM)	0.0014	0.0017	0.0011	0.0013	0.0030	0.0009
MEAN (PHI)	9.4312	9.2382	9.8725	9.6105	10.0751	
STAN DEV	2.2101	2.2357	1.9635	2.0782	2.3964	1.6825
SKENNESS	-0.3872	-0.2728	-0.5247	-0.4476	-0.0176	-0.6177
KURTOSIS	-0.6595	-1.0556	0.1169	0.0604	-1.3270	1.8684
CACO3	9.00%	10.00%	9.00%	11.00%	7.00%	9.00%
ORG CARBON	1.050	1.200	0.846	1.030	1.350	1.550
COLOR	5Y 2/1	N2			N2TON1	N2TON1
DOM MINERAL						
SEC MINERAL						

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 9/08/65  
ANALYZED 10/08/66

## SEDIMENT SIZE AND COMPOSITION DATA

TAKE N 9/08/65  
ANALYZED 9/08/65

CRUISE  
COURTER TYPE 2      SAMPLE 5 LATITUDE 25° 1.7 N  
ID. NO. 264 LENGTH 160.0 PENETRATION 250.0 LONGITUDE 89° 4.3 W  
INTERVAL 6.0- 3.0 DEPTH 16.0 PER PER

MM	PER	PER	PER	PER
4.0000	0.00	0.00	0.00	0.00
2.0000	0.00	0.00	0.00	0.00
1.0000	0.00	0.00	0.00	0.00
0.5000	0.00	0.00	0.00	0.00
0.2500	0.00	0.00	0.221	0.221
0.1250	0.149	0.149	0.221	0.221
0.0625	0.149	0.149	0.221	0.221
0.0312	0.00	0.00	0.00	0.00
0.0156	11.905	8.830	0.00	0.00
0.0078	0.00	0.00	0.00	0.00
0.0039	5.952	14.349	0.00	0.00
0.0020	0.00	35.714	25.386	25.386
0.0010	35.714	5.519	5.519	5.519
0.0005	6.696	45.254	45.254	45.254
0.0000-	39.435			

GRAVEL	0.000	0.000	0.001	
SAND	0.298	0.662	9.7737	
SILT	17.857	23.179	2.6263	
CLAY	81.845	76.159	-0.5336	
MEAN (MM)	0.0012	0.0011		
MEAN (PHI)	9.7411	9.7737		
STAN DEV	1.9636	2.6263		
SKENNESS	-0.5615	-0.5336		
KURTOSIS	0.3742	0.3969		
CACO3	0.000	0.000		
ORG CARBON	0.000	0.000		
COLOR	5Y 3/2	N4TCN2		
DOM MINERAL				
SEC MINERAL				

48

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE 9 TAKEN 9/08/65  
CORER TYPE 2 ANALYZED 11/08/65  
SAMPLE LENGTH 99.7 FEET  
LATITUDE 28.5 N  
PENETRATION 28.5' DEEP

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 9/08/65  
ANALYZED 12/08/66

CRUISE COTER TYPE	SAMPLE LENGTH	LATITUDE 25° N PENETRATION 225.5 DEPTH	LONGITUDE 89° W 18.2
ID. NO. INTERVAL	PER MM	PER MM	PER MM
4.0000	0.0000	0.0000	0.0000
2.0000	0.0000	0.0000	0.0000
1.0000	0.0000	0.0000	0.0000
0.5000	0.0000	0.0000	0.0000
0.2500	0.0101	0.0000	0.0000
0.1250	0.0101	0.0000	0.0000
0.0625	0.0101	0.0000	0.0000
0.0312	0.0051	0.0000	0.0000
0.0156	0.0000	0.0000	0.0000
0.0078	0.0000	0.0000	0.0000
0.0039	0.0000	0.0000	0.0000
0.0020	0.0000	0.0000	0.0000
0.0010	0.0000	0.0000	0.0000
0.0005	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000
GRAVEL	0.0000	0.0000	0.0000
SAND	0.304	0.000	0.259
SILT	31.377	15.646	23.748
CLAY	68.320	84.354	75.993
MEAN (MM)	0.0015	0.0000	0.0011
MEAN (PHI)	9.3927	10.2415	9.8877
STAN DEV	2.2298	1.4804	1.6894
SKEWNESS	-0.3557	-0.4547	-0.3987
KURTOSIS	-0.8040	-0.2567	-0.0168
CAC63	0.0000	0.0000	0.0000
ORG CARBON	0.0000	0.0000	0.0000
COLOR	N5TON4	N5	N5
DOM MINERAL			
SEC MINERAL			

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE COURER TYPE	NOL	SAMPLE LENGTH	LATITUDE 28 58.1 N		DEPTH	89 6.6 W	TAKEN	00 0 ANALYZED 2/10/6!
			6.1	PENETRATION C.0				
ID. NO. INTERVAL	264 C.0- 10.0	23 30.0- 40.0	264 50.0- 61.0	24 50.0	25	264 50.0	25	
MM	PER	PER	PER	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.5000	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
0.2500	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
0.1250	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
0.0625	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	37.427	37.427	37.427	37.427	37.427	37.427	37.427	37.427
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	12.281	12.281	12.281	12.281	12.281	12.281	12.281	12.281
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	12.281	12.281	12.281	12.281	12.281	12.281	12.281	12.281
C.0005	7.018	7.018	7.018	7.018	7.018	7.018	7.018	7.018
0.0003-	30.409	30.409	30.409	30.409	30.409	30.409	30.409	30.409
GRAVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SAND	0.585	0.585	0.585	0.585	0.585	0.585	0.585	0.585
SILT	49.708	49.708	49.708	49.708	49.708	49.708	49.708	49.708
CLAY	49.708	49.708	49.708	49.708	49.708	49.708	49.708	49.708
MEAN (MM)	C.0030	C.0030	C.0030	C.0030	C.0030	C.0030	C.0030	C.0030
MEAN (PHI)	8.3936	8.3936	8.3936	8.3936	8.3936	8.3936	8.3936	8.3936
STAN DEV	2.6178	2.6178	2.6178	2.6178	2.6178	2.6178	2.6178	2.6178
SKEWNESS	-0.0192	-0.0192	-0.0192	-0.0192	-0.0192	-0.0192	-0.0192	-0.0192
KURTOSIS	-1.5920	-1.5920	-1.5920	-1.5920	-1.5920	-1.5920	-1.5920	-1.5920
CACO3	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000
ORG CARBON	1.106	1.106	1.106	1.106	1.106	1.106	1.106	1.106
COLOR	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2	10YR4/2
DOM MINERAL								
SEC MINERAL								

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## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NOL SAMPLE 13 LATITUDE 28 57.5 N LONGITUDE 89 7.6 W TAKEN 12/08/65  
 Corer Type 5 LENGTH 76.0 PENETRATION 0.5 DEPTH 24.4 ANALYZED 25/10/65

ID. NO. 264 26 264 27 264 28 264 29  
 INTERVAL 0.0- 10.0 40.0- 50.0 60.0- 70.0 70.0- 76.0

MM	PER	PER	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.145	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.145	0.000	0.000	0.000	0.000	0.000	0.000
0.5000	0.145	0.000	0.000	0.000	0.000	0.000	0.218
0.2500	0.145	0.000	0.000	0.000	0.000	0.000	0.218
0.1250	0.289	0.000	0.000	0.000	0.000	0.000	0.218
0.0625	0.145	0.613	0.552	0.552	1.092	1.092	0.000
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	12.283	12.883	14.365	14.365	1.092	1.092	0.000
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	18.786	21.472	26.519	26.519	20.742	20.742	0.000
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	13.006	12.883	9.392	9.392	1.092	1.092	0.000
0.0005	13.006	12.883	11.602	11.602	40.393	40.393	0.000
0.0000-	41.908	39.264	37.569	37.569	34.934	34.934	0.000
GRAVEL	0.145	0.000	0.000	0.000	0.000	0.000	0.000
SAND	0.867	0.613	0.552	0.552	1.747	1.747	0.000
SILT	31.069	34.356	40.884	40.884	21.834	21.834	0.000
CLAY	67.919	65.031	58.564	58.564	76.419	76.419	0.000
MEAN (MM)	0.0014	0.0014	0.0017	0.0017	0.0010	0.0010	0.000
MEAN (PHI)	9.5173	9.4325	9.2293	9.2293	10.0262	10.0262	0.000
STAN DEV	2.2903	2.1991	2.2591	2.2591	1.8290	1.8290	0.000
SKEWNESS	-0.5248	-0.3309	-0.2264	-0.2264	-0.8499	-0.8499	0.000
KURTOSIS	0.6921	-0.9159	-1.2188	-1.2188	3.3455	3.3455	0.000
CACO3	9.000	8.000	9.000	9.000	8.000	8.000	0.000
ORG CARBON	1.480	1.200	1.080	1.080	1.090	1.090	0.000
COLOR	10YR4/2	10YR4/2	5Y 4/1	5Y 4/1	5Y 4/1	5Y 4/1	0.000
DOM MINERAL							57
SEC MINERAL							

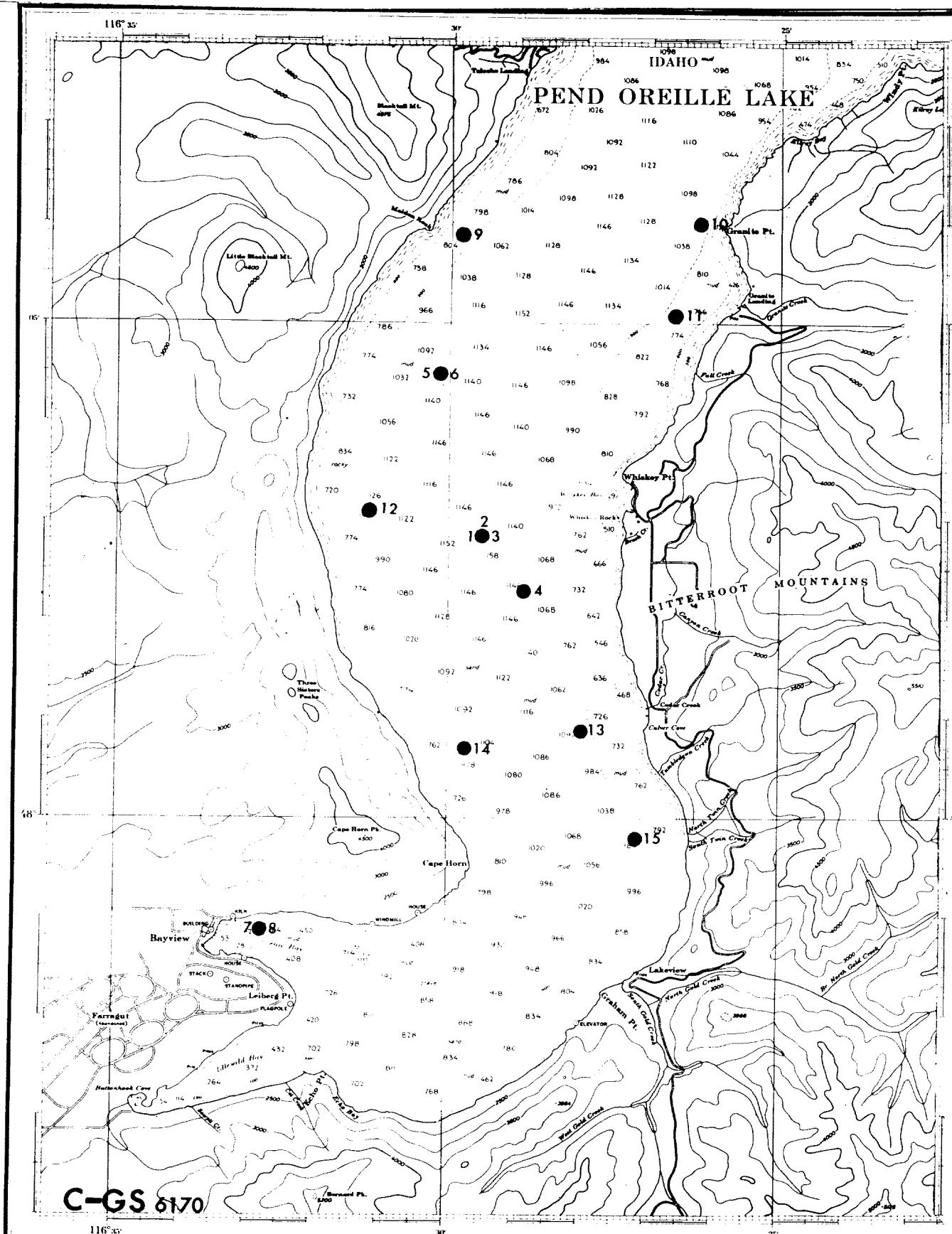
## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE Corer Type	NOL 5	SAMPLE LENGTH	LATITUDE		LONGITUDE		DEPTH	PER	PER	PER	PER	PER	PER	TAKEN 12/08/65 ANALYZED 25/10/6	
			14	60.5	28	57.2 N									
ID. NO. INTERVAL	264	30 0.0- 10.0	264	31 30.0- 40.0	264	32 50.0- 60.0									
MM		PER		PER		PER		PER		PER		PER		PER	
4.0000		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
2.0000		0.000		0.000		0.124		0.000		0.000		0.000		0.000	
1.0000		0.000		0.000		0.000		0.155		0.155		0.155		0.155	
0.5000		0.112		0.112		0.124		0.155		0.155		0.155		0.155	
0.2500		0.112		0.112		0.124		0.155		0.155		0.155		0.155	
0.1250		0.112		0.112		0.993		0.155		0.155		0.155		0.155	
0.0625		0.782		0.782		0.000		1.858		1.858		1.858		1.858	
0.0312		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
0.0156		10.056		10.056		26.675		19.350		19.350		19.350		19.350	
0.0078		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
0.0039		24.022		24.022		19.851		20.898		20.898		20.898		20.898	
0.0020		0.000		0.000		0.000		0.000		0.000		0.000		0.000	
0.0010		13.408		13.408		10.546		13.932		13.932		13.932		13.932	
0.0005		12.849		12.849		7.444		6.966		6.966		6.966		6.966	
0.0000-		38.547		38.547		34.119		36.378		36.378		36.378		36.378	
GRAVEL		0.000		0.000		0.124		0.000		0.000		0.000		0.000	
SAND		1.117		1.117		1.241		2.477		2.477		2.477		2.477	
SILT		34.078		34.078		46.526		40.248		40.248		40.248		40.248	
CLAY		64.804		64.804		52.109		57.276		57.276		57.276		57.276	
MEAN (MM)		0.0014		0.0014		0.0024		0.0020		0.0020		0.0020		0.0020	
MEAN (PHI)		9.4430		9.4430		8.6886		8.9412		8.9412		8.9412		8.9412	
STAN DEV		2.1761		2.1761		2.5805		2.5036		2.5036		2.5036		2.5036	
SKEWNESS		-0.3781		-0.3781		-0.1658		-0.2678		-0.2678		-0.2678		-0.2678	
KURTOSIS		-0.3808		-0.3808		-1.0459		-0.7631		-0.7631		-0.7631		-0.7631	
CACO3		10.000		10.000		7.000		8.000		8.000		8.000		8.000	
ORG CARBON		2.230		2.230		1.490		0.730		0.730		0.730		0.730	
COLOR		5YR2/1		5YR2/1		5YR2/1		5YR2/1		5YR2/1		5YR2/1		5YR2/1	
DOM MINERAL															
SEC MINERAL															

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 12/08/65  
ANALYZED 25/10/

ID. NO.	264	33	264	34	264	35
INTERVAL	0.0-	10.0	30.0-	40.0	50.0-	64.0



229 F.3d 8165

PRICE 75 CENTS

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U. S. DEPARTMENT OF COMMERCE

U. S. DEPARTMENT OF COMMERCE  
*John T. Connor, Secretary*  
COAST AND GEODETIC SURVEY

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Stiles H.  
DATE 21 August 1965

1. CRUISE NO. <b>PEND OREILLE</b>	4. SAMPLE NO. <b>265-</b>	7. TYPE CORER <b>Kullenberg - Gravity</b>
2. LATITUDE <b>°</b>	5. DATE TAKEN (day, month, year) <b>21 August 1965</b>	8. CORE LENGTH (cm)
3. LONGITUDE <b>°</b>	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	0-6 <b>6-13</b>	10-67 <b>67-90</b>
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.22	1.24
12. SPECIFIC GRAVITY OF SOLIDS		1.26
13. WATER CONTENT (%) dry weight	<b>157.1</b>	<b>182.6</b>
14. VOID RATIO		<b>168.9</b>
15. SATURATED VOID RATIO		<b>166.4</b>
16. POROSITY (%)		<b>147.6</b>
17. LIQUID LIMIT		
18. PLASTIC LIMIT		
19. PLASTICITY INDEX		
20. LIQUIDITY INDEX		
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ ) REMOLD ( $\text{kg/cm}^2$ )		
23. COHESION NATURAL ( $\text{kg/cm}^2$ ) REMOLD ( $\text{kg/cm}^2$ )	<b>.70</b>	<b>.42</b>
24. SENSITIVITY		
25. ANGLE OF INTERNAL FRICTION ( $\circ$ )		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (%)		
29. REMARKS		

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Stiles & H.  
DATE 21 August 1965

1. CRUISE NO. PEND OREILLE	4. SAMPLE NO. <b>265</b>	5. DATE TAKEN (day, month, year) <b>21 August 1965</b>	7. TYPE CORER <b>Kullenberg-Gravity</b>
2. LATITUDE <b>0°</b>	"	"	8. CORE LENGTH (cm)
3. LONGITUDE <b>0°</b>	"	"	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	<b>180-181</b>		
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )			
12. SPECIFIC GRAVITY OF SOLIDS			
13. WATER CONTENT (%) dry weight)			
14. VOID RATIO			
15. SATURATED VOID RATIO			
16. POROSITY (%)			
17. LIQUID LIMIT			
18. PLASTIC LIMIT			
19. PLASTICITY INDEX			
20. LIQUIDITY INDEX			
21. COMPRESSION INDEX FROM LL	.		
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ ) REMOULD ( $\text{kg/cm}^2$ )			
23. COHESION NATURAL ( $\text{kg/cm}^2$ ) REMOULD ( $\text{kg/cm}^2$ )	<b>22.5</b>	<b>0.70</b>	
24. SENSITIVITY	<b>32</b>		
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )			
26. ACTIVITY			
27. MODULUS OF ELASTICITY			
28. SLUMP (%)			
29. REMARKS			

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Stiles & H.I.  
 DATE 22 August 1965

1. CRUISE NO. PEND OREILLE	4. SAMPLE NO. <b>265</b>	3.5. 4	7. TYPE CORER <b>P.V.C. Gravity</b>
2. LATITUDE °	"	5. DATE TAKEN (Day, month, year) <b>16 Aug 1965</b>	8. CORE LENGTH (cm) <b>73</b>
3. LONGITUDE °	"	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	0 - 7	7 - 14	14 - 21
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	1.35	1.27	1.19
12. SPECIFIC GRAVITY OF SOLIDS			
13. WATER CONTENT (%) dry weight)	<b>139.2</b>	<b>186.7</b>	<b>251.4</b>
14. VOID RATIO			
15. SATURATED VOID RATIO			
16. POROSITY (%)			
17. LIQUID LIMIT			
18. PLASTIC LIMIT			
19. PLASTICITY INDEX			
20. LIQUIDITY INDEX			
21. COMPRESSION INDEX FROM LL			
22. COMPRESSIVE STRENGTH NATURAL ( $\text{g/cm}^2$ )			
	REMOULD ( $\text{g/cm}^2$ )		
23. COHESION NATURAL ( $\text{g/cm}^2$ )	<b>0.0</b>	<b>7.4</b> *	<b>4.6</b> *
	REMOULD ( $\text{g/cm}^2$ )	<b>0.0</b>	
24. SENSITIVITY			
25. ANGLE OF INTERNAL FRICTION ( $\theta$ )			
26. ACTIVITY			
27. MODULUS OF ELASTICITY			
28. SLUMP (%)			
29. REMARKS			

\* Penetrometer, fall cone

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

Sheet 1 of 3

ANALYZED BY Stiles & H.I.  
DATE 20 Aug 1965

1. CRUISE NO. PEND OREILLE	4. SAMPLE NO. <b>265</b>	5. DATE TAKEN (Day, month, year) <b>19 August 1965</b>	7. TYPE CORER <u>D.Y.C.-Graviry</u>
2. LATITUDE <b>0°</b>	6. WATER DEPTH (m) <b>0</b>	8. CORE LENGTH (cm) <b>260</b>	
3. LONGITUDE <b>0°</b>		9. CORER PENETRATION (cm) <b>430</b>	
10. SUBSAMPLE DEPTH IN CORE (cm)	0-7	7-14	14-21
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	<b>1.32</b>	<b>1.20</b>	<b>1.20</b>
12. SPECIFIC GRAVITY OF SOLIDS	<b>2.60</b>		
13. WATER CONTENT (% dry weight)	<b>179.3</b>	<b>256.9</b>	<b>258.2</b>
14. VOID RATIO	<b>4.53</b>		
15. SATURATED VOID RATIO	<b>4.66</b>		
16. POROSITY (%)	<b>81.92</b>		
17. LIQUID LIMIT	<b>103</b>	<b>103.2</b>	
18. PLASTIC LIMIT	<b>39</b>	<b>38.7</b>	
19. PLASTICITY INDEX		<b>64 / 32.9</b>	
20. LIQUIDITY INDEX		<b>103</b>	
21. COMPRESSION INDEX FROM LL			
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> ) REMOULD (g/cm <sup>2</sup> )			<b>43.59</b>
23. COHESION NATURAL (g/cm <sup>2</sup> ) REMOULD (g/cm <sup>2</sup> )	<b>26.01</b>	<b>23.20</b>	<b>0.0</b>
24. SENSITIVITY		<b>8.43</b>	<b>25.31</b>
		<b>0.0</b>	<b>21.80</b>
25. ANGLE OF INTERNAL FRICTION (°)	<b>23</b>	<b>8</b>	<b>3</b>
26. ACTIVITY			
27. MODULUS OF ELASTICITY			
28. SLUMP (%)			
29. REMARKS			

PRNC-NAVOCANO-3167/18 B (4-63)

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY Striles & Hill  
DATE 20 Aug 1965

1. CRUISE NO. PEND OREILLE	4. SAMPLE NO. 265	3. S. 6	7. TYPE CORER	P.V.C. - Gravity
2. LATITUDE °	"	5. DATE TAKEN (day, month, year)	19 August 1965	8. CORE LENGTH (cm)
3. LONGITUDE °	"	6. WATER DEPTH (m)	260	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	80-97	97-104	104-111	111-120
11. WET UNIT WEIGHT (g/cm <sup>3</sup> )	1.28	1.29	1.28	1.30
12. SPECIFIC GRAVITY OF SOLIDS		2.47		1.31
13. WATER CONTENT (%) dry weight	98.2	168.1	1800	160.4
14. VOID RATIO		4.37		3.98
15. SATURATED VOID RATIO		4.45		4.04
16. POROSITY (%)		81.38		79.92
17. LIQUID LIMIT				102.5
18. PLASTIC LIMIT				50.8
19. PLASTICITY INDEX				51.7
20. LIQUIDITY INDEX				10.3
21. COMPRESSION INDEX FROM LL				
22. COMPRESSIVE STRENGTH NATURAL (g/cm <sup>2</sup> )		64.68		64.68
REMOULD (g/cm <sup>2</sup> )				
23. COHESION NATURAL (g/cm <sup>2</sup> )	24.61	32.34	28.83	33.04
REMOULD (g/cm <sup>2</sup> )	0.0		0.42	0.0
24. SENSITIVITY	2.5		7	37
25. ANGLE OF INTERNAL FRICTION (°)				
26. ACTIVITY				
27. MODULUS OF ELASTICITY				
28. SLUMP (%)				
29. REMARKS				

## CORE ANALYSIS SUMMARY SHEET ENGINEERING PROPERTIES

ANALYZED BY STYL/ES E H-11  
DATE 20 Aug. 1965

1. CRUISE NO. PEND OREILLE		4. SAMPLE NO.	265	3.5.6	7. TYPE CORER P.V.C. - Gravity
2. LATITUDE	°	5. DATE TAKEN (Day, month, year)	19 AUGUST 1965	8. CORE LENGTH (cm)	260
3. LONGITUDE	°	6. WATER DEPTH (m)		9. CORER PENETRATION (cm)	430
10. SUBSAMPLE DEPTH IN CORE (cm)		180-187/187/194/194-201/201-210/210-217/217-224/224-231/231-253/253-260			
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )		1.31	1.29	1.32	1.29
12. SPECIFIC GRAVITY OF SOLIDS		2.52			2.53
13. WATER CONTENT (% dry weight)		16.5.8	16.7.2	14.2.0	16.5.0
14. VOID RATIO		4.14			1.10.4
15. SATURATED VOID RATIO		4.18			1.50.8
16. POROSITY (%)		80.54			1.41.3
17. LIQUID LIMIT					79.47
18. PLASTIC LIMIT					82.9
19. PLASTICITY INDEX					45.7
20. LIQUIDITY INDEX					37.2
21. COMPRESSION INDEX FROM LL					83
22. COMPRESSIVE STRENGTH NATURAL ( $\text{kg/cm}^2$ )					64.68
	REMOULD	( $\text{kg/cm}^2$ )			63.28
23. COHESION NATURAL ( $\text{kg/cm}^2$ )		33.75			31.64
	REMOULD	( $\text{kg/cm}^2$ )	0.42		3.52
24. SENSITIVITY		8			10
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )					
26. ACTIVITY					
27. MODULUS OF ELASTICITY					
28. SLUMP (in)					
29. REMARKS					

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY StilesDATE 24 August 1965

1. CRUISE NO. PEND OREILLE	4. SAMPLE NO. <u>265</u>	5. DATE TAKEN (day, month, year) <u>24 Aug. 1965</u>	7. TYPE CORER <u>P.V.C. - Gravity</u>
2. LATITUDE <u>0°</u>	"	"	8. CORE LENGTH (cm)
3. LONGITUDE <u>0°</u>	"	"	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	<u>0-1</u>	<u>1-8</u>	<u>60.67</u>
11. WET UNIT WEIGHT ( $\text{g/cm}^3$ )	<u>1.25</u>	<u>1.26</u>	<u>67.90</u>
12. SPECIFIC GRAVITY OF SOLIDS			<u>97.120</u>
13. WATER CONTENT (% dry weight)	<u>253.0</u>	<u>2/3.3</u>	<u>127.150</u>
14. VOID RATIO		<u>200.0</u>	<u>1.32</u>
15. SATURATED VOID RATIO		<u>176.6</u>	<u>1.33</u>
16. POROSITY (%)			
17. LIQUID LIMIT			
18. PLASTIC LIMIT			
19. PLASTICITY INDEX			
20. LIQUIDITY INDEX			
21. COMPRESSION INDEX FROM LL			
22. COMPRESSIVE STRENGTH NATURAL ( $\text{g/cm}^2$ )			
	REMOULD ( $\text{g/cm}^2$ )		
23. COHESION NATURAL ( $\text{g/cm}^2$ )	<u>.70</u>	<u>1.41</u>	<u>2.81</u>
	REMOULD ( $\text{g/cm}^2$ )		
24. SENSITIVITY			<u>2.81</u>
25. ANGLE OF INTERNAL FRICTION ( $^\circ$ )			
26. ACTIVITY			
27. MODULUS OF ELASTICITY			
28. SLUMP (in)			
29. REMARKS			<u>4</u>

**CORE ANALYSIS SUMMARY SHEET**  
**ENGINEERING PROPERTIES**

ANALYZED BY S. J. S.DATE 24 August 1965

1. CRUISE NO. PEAK OREILLE	4. SAMPLE NO. 265 3.5.8	7. TYPE CORER P.V.C. - Gravity
2. LATITUDE °	5. DATE TAKEN (Day, month, year) 24 Aug. 1965	8. CORE LENGTH (cm) 221
3. LONGITUDE °	6. WATER DEPTH (m)	9. CORER PENETRATION (cm)
10. SUBSAMPLE DEPTH IN CORE (cm)	157/64/64.2/52.5-221	
11. WET UNIT WEIGHT (g/cm³)	1.34	
12. SPECIFIC GRAVITY OF SOLIDS		
13. WATER CONTENT (% dry weight)	43.4	
14. VOID RATIO	149.7	
15. SATURATED VOID RATIO		
16. POROSITY (%)		
17. LIQUID LIMIT		
18. PLASTIC LIMIT		
19. PLASTICITY INDEX		
20. LIQUIDITY INDEX		
21. COMPRESSION INDEX FROM LL		
22. COMPRESSIVE STRENGTH NATURAL (g/cm²) REMOLD (g/cm²)		
23. COHESION NATURAL (g/cm²) REMOLD (g/cm²)		
24. SENSITIVITY		
25. ANGLE OF INTERNAL FRICTION (°)		
26. ACTIVITY		
27. MODULUS OF ELASTICITY		
28. SLUMP (%)		
29. REMARKS 1. Very soapy at top		

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NOL SAMPLE LATITUDE LONGITUDE TAKEN 19/08/65  
 CORER TYPE 2 LENGTH 260.0 PENETRATION 430.0 DEPTH 358.2 0.0 ANALYZED 20/08/  
 ID. NO. 265 1 265 3 265 4 265 5 265 6  
 INTERVAL 0.0- 30.0 30.0- 37.0 43.0- 44.0 60.0- 67.0 81.0- 90.0 90.0- 97.0

GRAVEL	0.000	0.000	0.000	0.000	0.000
SAND	0.396	0.185	0.000	17.085	0.810
SILT	30.228	30.499	0.000	37.060	14.170
CLAY	69.376	69.316	0.000	45.854	85.020
MEAN (MM)	0.0014	0.0014	0.0000	0.0049	0.0009
MEAN (PHI)	9.4653	9.4298	0.0000	7.6671	10.1478
STAN DEV	1.7791	1.6037	0.0000	2.9005	1.7030
SKEWNESS	-0.3274	-0.1362	0.0000	-0.4644	-0.8829
KURTOSIS	0.2680	-0.1679	0.0000	-0.0604	4.2371

CACO3	3.000	2.000	9.000	4.000
ORG CARBON	1.490	1.680	0.380	1.020
COLOR	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2

ID. NO. INTERVAL	265 104.0-111.0	7 120.0-127.0	265 134.0-141.0	8 150.0-157.0	9 164.0-171.0	10 165 11 180.0-187.
MM	PER	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.000	0.118	0.000	0.108	0.223	0.000
0.5000	0.098	0.237	0.075	0.108	0.112	0.123
0.2500	0.098	0.237	0.299	0.108	0.223	0.123
0.1250	0.098	0.237	0.448	0.108	0.335	0.123
0.0625	0.098	0.118	0.224	0.108	0.223	0.123
0.0312	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	1.963	1.303	1.494	3.888	3.911	5.528
0.0078	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	33.857	47.393	30.246	38.877	36.313	25.184
0.0020	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	28.459	31.398	31.367	36.717	38.547	32.555
0.0005	16.304	7.109	11.202	6.479	7.821	11.671
0.0000-	25.025	11.848	24.645	13.499	12.291	24.570
GRAVEL	0.000	0.000	0.000	0.000	0.000	0.000
SAND	0.393	0.948	1.046	0.540	1.117	0.491
SILT	35.819	48.697	31.740	42.765	40.223	30.713
CLAY	63.788	50.355	67.214	56.695	58.659	68.796
MEAN (MM)	0.0016	0.0024	0.0015	0.0022	0.0022	0.0015
MEAN (PHI)	9.3184	8.7322	9.3648	8.8585	8.8542	9.3464
STAN DEV	1.7219	1.6373	1.7551	1.6513	1.7125	1.8029
SKEWNESS	-0.1962	-0.2477	-0.3823	-0.2183	-0.4202	-0.3566
KURTOSIS	0.0246	2.6625	1.3149	1.4034	2.7208	0.4865
CACO3	1.000	2.000	2.000	3.000	3.000	4.000
ORG CARBON	1.350	1.340	1.170	1.200	1.220	1.340
COLOR	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2
DOM MINERAL						
SEC MINERAL						

ID. NO.	265	13	265	14	265	15	265	16
INTERVAL	194.0-201.0		210.0-217.0		224.0-231.0		253.0-260.0	

PER PER PER PER

GRAVEL	0.000	0.000	0.000
SAND	0.000	0.677	0.409
SILT	0.000	13.544	37.794
SLAY	0.000	85.779	61.798

MEAN (MM)	0.0000	0.0009	0.0021	0.0018
MEAN (PHI)	0.0000	10.1411	8.8898	9.1251
STAN DEV	0.0000	1.5843	1.7730	1.7614
KURTNESS	0.0000	-0.8234	-0.5114	-0.1728
KURTOSIS	0.0000	3.6633	3.4309	-0.3448

AC03	0.000	2.000	2.000
ORG CARBON	0.000	1.340	1.200
COLOR	5Y 5/2	5Y 5/2	5Y 5/2

SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 16/08/65  
ANALYZED 21/08/6

CRUISE	NOL	SAMPLE	LATITUDE	LONGITUDE	DEPTH
CORER TYPE	LENGTH	2	0	0.0	352.1
4		207.0	PENETRATION	430.0	
ID. NO.	265	17	265	19	265
INTERVAL	6.0-	13.0	30.0-	37.0	90.0-
				67.0	97.0
					120.0-127.0

MM	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.172	0.000	0.000	0.000
1.0000	0.000	0.515	0.000	0.000	0.000
0.5000	0.000	0.172	0.195	0.160	0.146
0.2500	0.108	0.172	0.195	0.320	0.163
0.1250	0.108	0.000	0.000	0.160	0.163
0.0625	0.108	0.172	0.000	0.160	0.000
0.0312	0.000	0.000	0.000	0.000	0.000
0.0156	1.083	1.029	1.953	0.800	1.458
0.0078	0.000	0.000	0.000	0.000	0.000
0.0039	60.672	28.302	44.922	20.800	37.901
0.0020	0.000	0.000	0.000	0.000	0.000
0.0010	14.085	41.166	33.203	35.200	37.520
0.0005	4.875	6.861	5.859	13.600	3.263
0.0000-	18.960	21.441	13.672	28.800	17.945

GRAVEL	0.000	0.172	0.000	0.000	0.000
SAND	0.325	1.029	0.391	0.489	0.146
SILT	61.755	29.331	46.875	40.783	39.359
CLAY	37.920	69.468	52.734	58.728	60.496
MEAN (MM)	0.0025	0.0016	0.0022	0.0012	0.0001
MEAN (PHI)	8.6484	9.2804	8.8223	9.7032	9.056
STAN DEV	1.6863	1.7909	1.5933	1.6362	1.542
SKENNESS	0.2857	-0.7773	-0.0794	-0.5792	-0.058
KURTOSIS	-0.4725	6.5726	1.0803	3.0132	0.250

CACO <sub>3</sub>	0.000	0.000	0.000	0.000
ORG CARBON	0.000	0.000	0.000	0.000
COLOR	5Y 5/2	5Y 5/2	5Y 3/2	5Y 5/2
DOM MINERAL				

ID. NO. 265 23  
INTERVAL 180.0-187.0

MM	PER	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.000	0.000
1.0000	0.000	0.000	0.000	0.000	0.000
0.5000	0.000	0.000	0.000	0.000	0.000
0.2500	0.000	0.000	0.000	0.000	0.000
0.1250	0.000	0.000	0.000	0.000	0.000
0.0625	0.000	0.000	0.000	0.000	0.000
0.0312	0.000	0.000	0.000	0.000	0.000
0.0156	0.000	0.000	0.000	0.000	0.000
0.0078	0.000	0.000	0.000	0.000	0.000
0.0039	0.000	0.000	0.000	0.000	0.000
0.0020	0.000	0.000	0.000	0.000	0.000
0.0010	0.000	0.000	0.000	0.000	0.000
0.0005	0.000	0.000	0.000	0.000	0.000
0.0000-	44.316	44.316	44.316	44.316	44.316
GRAVEL	0.000	0.000	0.000	0.000	0.000
SAND	0.771	0.771	0.771	0.771	0.771
SILT	11.561	11.561	11.561	11.561	11.561
CLAY	87.669	87.669	87.669	87.669	87.669
MEAN (MM)	0.0008	0.0008	0.0008	0.0008	0.0008
MEAN (PHI)	10.2900	10.2900	10.2900	10.2900	10.2900
STAN DEV	1.5433	1.5433	1.5433	1.5433	1.5433
SKEWNESS	-0.9949	-0.9949	-0.9949	-0.9949	-0.9949
KURTOSIS	6.3292	6.3292	6.3292	6.3292	6.3292
CACO3	0.000	0.000	0.000	0.000	0.000
ORG CARBON	5Y 5/2				
COLOR					
DOM MINERAL					
SEC MINERAL					

#### SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 16/08/65  
ANALYZED 22/08/

CRUISE NOL		SAMPLE LENGTH	LATITUDE	PENETRATION	DEPTH	LONGITUDE	DEPTH
ID. NO.	INTERVAL	4 73.0	0 265	0 25	0 44.0-	0 265	0 60.0-
	MM	PER	PER	PER	PER	PER	PER
	4.0000	0.000	0.000	0.000	0.000	0.000	0.000
	2.0000	0.000	0.000	0.000	0.000	0.000	0.000
	1.0000	0.000	0.000	0.000	0.000	0.000	0.000
	0.5000	0.000	0.000	0.000	0.000	0.000	0.000
	0.2500	0.144	0.144	0.128	0.118	0.118	0.091
	0.1250	0.144	0.144	0.128	0.118	0.118	0.091
	0.0625	0.144	0.144	0.128	0.118	0.118	0.091
	0.0312	0.000	0.000	0.000	0.000	0.000	0.000
	0.0156	4.329	14.668	9.423	14.572	14.572	14.572
	0.0078	0.000	0.000	0.000	0.000	0.000	0.000
	0.0039	2.886	30.612	45.936	39.162	39.162	39.162
	0.0020	0.000	0.000	0.000	0.000	0.000	0.000
	0.0010	35.354	26.148	18.257	19.126	19.126	19.126
	0.0005	16.595	8.291	7.067	9.107	9.107	9.107
	0.0000	40.404	19.770	18.846	17.760	17.760	17.760
	GRAVEL	0.000	0.000	0.000	0.000	0.000	0.000
	SAND	0.433	0.510	0.471	0.273	0.273	0.273
	SILT	7.215	45.281	55.359	53.734	53.734	53.734
	CLAY	92.352	54.209	44.170	45.993	45.993	45.993
	MEAN (TH)	0.0008	0.0023	0.0025	0.0026	0.0026	0.0026
	MEAN (PHI)	10.2128	8.7411	8.6166	8.5610	8.5610	8.5610
	STAN DEV	1.5156	2.0402	1.9132	1.9883	1.9883	1.9883
	SKEWNESS	-0.9226	-0.1504	0.0101	0.0026	0.0026	0.0026
	KURTOSIS	4.6697	-0.6031	-0.4458	-0.9486	-0.9486	-0.9486
	CACD3	0.000	0.000	0.000	0.000	0.000	0.000
	ORG CARBON	0.000	0.000	0.000	0.000	0.000	0.000
	COLOR	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2	5Y 5/2
	DOM MINERAL						
	SEC MINERAL						

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE Corer Type	NOL	SAMPLE LENGTH	8 221.0	LATITUDE PENETRATION	0 0.0	DEPTH	0 0.0	LONGITUDE	0 0.0	TAKEN 19/08/65 ANALYZED 24/08/6		
ID. NO. INTERVAL	265 0.0-	28 8.0	265 30.0-	29 37.0	265 60.0-	30 67.0	90.0-	97.0	265 120.0-	31 127.0	265 150.0-	32 157.0

MM	PER									
4.0000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.113	0.000	0.000	0.115	0.000	0.000	0.000	0.164	0.164	0.164
0.5000	0.113	0.179	0.115	0.115	0.097	0.097	0.097	0.141	0.141	0.141
0.2500	0.113	0.179	0.115	0.115	0.097	0.097	0.097	0.283	0.283	0.283
0.1250	0.338	0.896	0.460	0.460	0.193	0.193	0.193	0.263	0.263	0.263
0.0625	3.716	0.896	5.862	0.870	1.642	1.642	1.642	2.829	2.829	2.829
0.0312	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	20.608	16.308	10.575	10.575	15.087	15.087	15.087	20.525	20.525	20.525
0.0078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	19.144	42.115	22.989	22.989	34.333	34.333	34.333	31.199	31.199	31.199
0.0020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	23.649	27.778	20.690	20.690	32.882	32.882	32.882	31.199	31.199	31.199
0.0005	8.446	1.792	12.644	12.644	7.253	7.253	7.253	7.389	7.389	7.389
0.0000-	23.649	9.857	26.437	26.437	9.188	9.188	9.188	11.315	11.315	11.315
GRAVEL	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SAND	4.392	2.151	6.667	6.667	1.257	1.257	1.257	2.299	2.299	2.299
SILT	39.752	58.423	33.563	33.563	49.420	49.420	49.420	51.724	51.724	51.724
CLAY	55.743	39.427	59.770	59.770	49.323	49.323	49.323	45.977	45.977	45.977
MEAN (MM)	0.0026	0.0037	0.0022	0.0022	0.0030	0.0030	0.0030	0.0036	0.0036	0.0035
MEAN (PHI)	8.5608	8.0735	8.8575	8.8575	8.3839	8.3839	8.3839	8.1577	8.1577	8.1577
STAN DEV	2.4753	1.9216	2.4494	2.4494	1.8789	1.8789	1.8789	2.0193	2.0193	2.0193
SKEWNESS	-0.2589	-0.1077	-0.3862	-0.3862	-0.1606	-0.1606	-0.1606	-0.1998	-0.1998	-0.2854
KURTOSIS	-0.5306	0.2534	-0.1765	-0.1765	-0.2356	-0.2356	-0.2356	-0.0076	-0.0076	-0.0303
CAC03	3.000	4.000	4.000	4.000	4.000	4.000	4.000	3.000	3.000	4.000
ORG CARBON	1.650	1.830	1.630	1.630	1.350	1.350	1.350	1.100	1.100	1.000
COLOR	5Y 5/2									
DOM MINERAL										
SEC MINERAL										

69

ID. NO. 265 34  
INTERVAL 157.0-164.0

PEI

PER

PER

PER

PER

MM	PER
4.0000	0.000
2.0000	0.088
1.0000	0.088
0.5000	0.088
0.2500	0.176
0.1250	0.616
0.0625	7.130
0.0312	0.000
0.0156	18.310
0.0078	0.000
0.0039	17.165
0.0020	0.000
0.0010	21.127
0.0005	12.324
0.0000-	22.887

GRAVEL	0.088
SAND	8.099
SILT	35.475
CLAY	56.338

MEAN (MM)	0.0028
MEAN (PHI)	8.4938
STAN DEV	2.6249
SKEWNESS	-0.2882
KURTOSIS	-0.6783

CACO <sub>3</sub>	3.000
ORG CARBON	1.350
COLOR	5Y 5/2
DOM MINERAL	
SEC MINERAL	

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NOL  
COKER TYPE 5  
SAMPLE 9  
LENGTH 118.0  
LATITUDE 0 0.0 N  
PENETRATION 0.0  
DEPTH 243.8  
TAKEN 25/08/65  
ANALYZED 10/11/65

ID. NO. 265 35  
INTERVAL 0.0- 10.0  
PER PER  
MM MM

		PER	PER	PER	PER	PER	PER
4.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
1.0000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.5000	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.2500	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.1250	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.0625	0.143	0.143	0.210	0.210	0.374		
0.0312	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156	9.272	6.303	11.208				
0.0078	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039	22.825	22.059	24.284				
0.0020	0.0000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010	34.950	36.765	31.756				
0.0005	13.552	14.706	11.831				
0.0000-	19.258	19.958	20.548				

GRAVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SAND	0.143	0.210	0.210	0.210	0.374		
SILT	32.097	28.361	35.492				
CLAY	67.760	71.429	64.134				
MEAN (MM)	0.0017	0.0015	0.0019				
MEAN (PHI)	9.1847	9.3403	9.0729				
STAN DEV	1.8040	1.6989	1.9123				
SKEWNESS	-0.2795	-0.3182	-0.2428				
KURTOSIS	-0.5110	-0.2043	-0.6830				

CACO3	5.100	4.200	4.600				
ORG CARBON	1.660	1.240	1.250				
COLOR	5Y 5/1	5Y 5/1	10Y 4/1				
DOM MINERAL							
SEC MINERAL							



## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 25/08/65  
ANALYZED 12/11/65

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 25/08/65  
ANALYZED 15/11/6

CRUISE NOL CORER TYPE 5	SAMPLE LENGTH	12 63.5	LATITUDE PENETRATION	0.0 N 0.0	DEPTH	0 313.0	LONGITUDE 0 0.0 W	0 0.0
ID. NO. INTERVAL	265 49 0.0- 10.0	265 50 43.0- 50.0		265 51 50.0- 60.0				
	MM	PER	PER	PER	PER	PER	PER	PER
4.0000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.0000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.0000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.5000		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.2500		0.000	0.000	4.211	0.000	0.000	0.000	0.000
0.1250		0.000	0.000	5.263	0.000	0.000	0.000	0.000
0.0625		0.289	0.289	5.263	0.198	0.198	0.198	0.198
0.0312		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0156		0.000	0.000	10.526	5.929	5.929	5.929	5.929
0.0078		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0039		34.682	34.682	22.105	35.573	35.573	35.573	35.573
0.0020		0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.0010		39.017	39.017	28.421	28.656	28.656	28.656	28.656
0.0005		15.896	15.896	9.474	12.846	12.846	12.846	12.846
0.0000-	10.116			14.737	16.798	16.798	16.798	16.798
GRAVEL		0.000	0.000	0.000	0.000	0.000	0.000	0.000
SAND		0.289	14.737	14.737	0.198	0.198	0.198	0.198
SILT		34.682	32.632	32.632	41.502	41.502	41.502	41.502
CLAY		65.029	52.632	52.632	58.300	58.300	58.300	58.300
MEAN (MM)		0.0018	0.0039	0.0039	0.0019	0.0019	0.0019	0.0019
MEAN (PHI)		9.1503	8.0053	8.0053	9.0040	9.0040	9.0040	9.0040
STAN DEV		1.3902	2.8613	2.8613	1.7312	1.7312	1.7312	1.7312
SKEWNESS		-0.0669	-0.3876	-0.3876	-0.0976	-0.0976	-0.0976	-0.0976
KURTOSIS		-0.5563	-0.3643	-0.3643	-0.8012	-0.8012	-0.8012	-0.8012
CACO3		6.700	7.300	7.300	6.700	6.700	6.700	6.700
ORG CARBON		1.260	2.280	2.280	1.130	1.130	1.130	1.130
COLOR		5Y 4/1	5Y 4/1	5Y 4/1	5GY4/1	5GY4/1	5GY4/1	5GY4/1
DOM MINERAL								
SEC MINERAL								

## SEDIMENT SIZE AND COMPOSITION DATA

CRUISE NOI      SAMPLE 13      LATITUDE 0 0.0 N  
 CORER TYPE 5      LENGTH 30.0      PENETRATION 0.0      DEPTH 333.0      TAKEN 25/08/65  
 ANALYZED 12/11/6

ID. NO.      265      38      265      39  
 INTERVAL      0.0- 10.0      20.0- 30.0

MM	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000
2.0000	0.000	0.000	0.000	0.000
1.0000	0.000	0.000	0.000	0.000
0.5000	0.000	0.000	0.000	0.000
0.2500	0.602	0.602	0.000	0.000
0.1250	1.205	1.205	0.820	0.820
0.0625	0.602	0.602	0.820	0.820
0.0312	0.000	0.000	0.000	0.000
0.0156	3.012	3.012	6.557	6.557
0.0078	0.000	0.000	0.000	0.000
0.0039	16.867	16.867	16.393	16.393
0.0020	0.000	0.000	0.000	0.000
0.0010	27.711	27.711	33.667	33.667
0.0005	14.458	14.458	14.754	14.754
0.0000-	35.542	35.542	27.049	27.049

GRAVEL      0.000      0.000  
 SAND      2.416      1.639  
 SILT      19.880      22.951  
 CLAY      77.711      75.410

MEAN (MM)      0.0012      0.0014  
 MEAN (PHI)      9.7289      9.4918  
 STAN DEV      1.9655      1.9055  
 SKEWNESS      -0.7554      -0.5556  
 KURTOSIS      2.8251      1.0907

CACO3      4.600      4.600  
 ORG CARBON      1.440      1.520  
 COLOR      5Y 4/1      5Y 4/1  
 DOM MINERAL  
 SEC MINERAL

## SEDIMENT SIZE AND COMPOSITION DATA

TAKEN 25/08/65  
ANALYZED 15/11/65

CRUISE NOL  
CORER TYPE 5      SAMPLE 14      LATITUDE 0 0.0 N  
LENGTH 60.0      PENETRATION 0.0      LONGITUDE 0 0.0 W  
ID. NO.      265 44      DEPTH 305.0

ID. NO.      265 44      265 45  
INTERVAL 0.0- 10.0      50.0- 60.0

MM PER PER

4.0000	0.000	0.000
2.0000	0.000	0.000
1.0000	0.000	0.000
0.5000	0.000	0.000
0.2500	0.000	0.000
0.1250	0.000	0.000
0.0625	0.289	0.266
0.0312	0.000	0.000
0.0156	14.451	2.660
0.0078	0.000	0.000
0.0039	21.676	29.255
0.0020	0.000	0.000
0.0010	33.237	31.915
0.0005	11.561	17.287
0.0000-	18.786	18.617
GRAVEL	0.000	0.000
SAND	0.289	0.266
SILT	36.127	31.915
CLAY	63.584	67.819
MEAN (MM)	0.0020	0.0015
MEAN (PHI)	8.9624	9.3378
STAN DEV	1.9650	1.6071
SKEWNESS	-0.2376	-0.2038
KURTOSIS	-0.8007	-0.5146
CACO3	5.500	6.600
ORG CARBON	1.280	1.260
COLOR	5Y 6/1	5Y 4/1
DOM MINERAL		
SEC MINERAL		

7  
CACO3  
ORG CARBON  
COLOR  
DOM MINERAL  
SEC MINERAL

**SEDIMENT SIZE AND COMPOSITION DATA**

CRUISE	NOL	SAMPLE	LATITUDE	LONGITUDE	TAKEN
CORER	TYPE	LENGTH	34.0	0.0 N	0.0 W
ID.	NO.	PENETRATION	0.0	DEPTH	300.0
INTERVAL	0.0-	10.0	24.0-	34.0	15/11/4
	265	42	265	43	

MM	PER	PER	PER	PER
4.0000	0.000	0.000	0.000	0.000
2.0000	0.034	0.034	0.000	0.000
1.0000	85.756	85.756	0.000	0.000
0.5000	0.137	0.137	0.000	0.000
0.2500	0.548	0.548	0.000	0.000
0.1250	0.788	0.788	0.000	0.000
0.0625	0.240	0.240	0.169	0.169
0.0312	0.000	0.000	0.000	0.000
0.0156	1.198	1.198	4.230	4.230
0.0078	0.000	0.000	0.000	0.000
0.0039	4.280	4.280	18.613	18.613
0.0020	0.000	0.000	0.000	0.000
0.0010	3.681	3.681	32.149	32.149
0.0005	1.798	1.798	15.228	15.228
0.0000-	1.541	1.541	29.611	29.611

GRAVEL	0.034	0.000	0.0012
SAND	87.468	0.169	9.6929
SILT	5.479	22.843	1.6678
CLAY	7.019	76.988	-0.3940
MEAN (MM)	0.6112		-0.0166
MEAN (PHI)	0.7102		
STAN DEV	3.1486		
SKEWNESS	1.1970		
KURTOSIS	4.0451		
CACO3	5.400	5.000	
ORG CARBON	0.720	1.220	
COLOR	5Y 4/1	5Y 6/1	
DON MINERAL			
SEC MINERAL			



## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG NO:

PROJECT NO. SUBSUMO

DATE LOGGED IN:

SAMPLE NO: 3

SECTION NO.

SAMPLER TYPE PVC.

LATITUDE:

LOCATION: PINNEY POINT

WATER DEPTH: (M)

LONGITUDE:

CORE LENGTH: (CM)

DATE CORED: (D, M, Y.)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells  
O: shell + structures, mottling,  
water, accessories, etc.)

TEST  
Type,  
depth

D  
E  
P  
E  
HCORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)

100-110 cm. - significant  
increase in strength

VANE

-

56Y41

253-11

100-110

Clay

UNCON-

FINED

COMP.

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OCEANOGRAPHIC LABORATORY LOG SHEET

LOG 81.

PROJECT NO. S-03045

SAMPLE NO. 3

**SECTION NO.**

### LATTICE

LOCATION: PINNEY POINT

卷之三

DATA LOGGED IN:

SAMPLER TYPE P.V.C.

#### **THE DEPTHS (Y)**

**FORE-LEADER** (3)

**CORE LANGUAGE**  
**CARE BIMONTHLY**

**CAJA PESQUERAS Y CAZA  
DONDE HABLA EL MAR**

## DATE OF EXPIRY

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, &c.)

TEST  
Type  
depth

## CORE SEARCH (Visual structures)

COLON	LAB. NO.	INTERVAL	SEDIMENT	TYPE (V. spp.)

200-212 - SOUPY

卷之三

卷之三

SGY

*[Signature]*

15

24

200  
-  
-  
BOTTOM OF  
Core - 212c

SGY

*[Signature]*

15

24

~~No Test~~

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## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY STILES PROJECT NO. SUBSOME  
SAMPLE NO: #1 SECTION NO.

LATITUDE: LOCATION: Piney Point, Md.

LONGITUDE:

DATE CORED: (D.M.Y.) 10 June 65 NTS + LKG

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect. O

DATE LOGGED IN: 29 June 65  
SAMPLER TYPE PVC - GRAVITY 100#  
WATER DEPTH: (m) 84' (FMS)  
CORE LENGTH: (cm) 203 cm - 197 cm  
CORE PENETRATION: (cm) ± 276 cm

TEST Type, depth)	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
roughly 6 cm lost when core opened, pressure in barrel due to this	-	olive	253-1	0-5	silty clay
Top portion of core very soupy.	-	gray			
slight increase in consistency with depth	-	SGY4/1			
minute shell frags (<1%) Vane from 80 cm to bottom	10-				
on the basis of lamination or sediment type the material appears quite homogeneous, except for the fact that from about from ± 50 cm begins to feel more uniform. probably there is more organic carbon in the top on the changes over time in environment	20-		253-2	20-30	
50-53 darker zone	30-				
*Each measured increment represents 6 cm below the in situ measurement. Also roughly 10 cm should be added to bottom for core penetration/length of core measurement (10 amount in CC + CC)	40-				
Note Perform CaCO <sub>3</sub> + Organic C. at each size interval.	50-		253-3	50-53	clay
	60-				
	70-				
	80-				
	90-				
	100-				

## OCIOGRAPHIC LABORATORY LOG SHEET

LOG #:

PROJECT NO.

DATE LOGGED IN:

SAMPLE NO.:

SECTION NO.

SAMPLER TYPE

LATITUDE:

LOCATION:

WATER DEPTH(M)

LONGITUDE:

(FMS)

DATE CORED: (D,M,Y.)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect. o)TEST  
(Type,  
depth)CORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)

SGY411

clay

110-

253-5 110-120

120-

253-6 128-133

128-133 Shell fragments

130-

253-7 160-170

128

140-

150-

160-

170-

180-

190-

200-

Bottom of

core

197 cm

↓

↓

253-8 190-197

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG NO.: 5+1es  
SAMPLE NO.: 4PROJECT NO. 253  
SECTION NO.LATITUDE:  
LONGITUDE:

LOCATION: Piney Point, Md.

DATE CORED: (D,M,Y.)

DATE LOGGED IN: 20 July 1965

SAMPLER TYPE

WATER DEPTH: (M)

CORE LENGTH: (CM)

(FMS)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells structures, mottling, accessories, ect.)	TEST Type,	DEPTH cm	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
SIMILAR SHELLS THROUGHOUT FIRST 20 CM VERY SOFTY STRONG ORDER OF HS FOR FIRST 3.5 CM.		0		SG 2/1	253-14	0-10	
		10		SG 2/1	253-15	10-20	
		20		SG Y 4/1			
		30					
		40					
		50					
54 CM SHELL LAYER		60					
4 CM DARK BAND		70		SG 2/1	253-16	40-50	
WEAK ORDER OF HS FOR REST OF CORE		80		SG Y 4/1	253-17	50-60	
		90					
		100		SG 4/1			

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG NO.	PROJECT NO.			DATE LOGGED IN:		
SAMPLE NO.	SECTION NO.			SAMPLER TYPE		
LATITUDE:	LOCATION:			WATER DEPTH:(M)		
LONGITUDE:				CORE LENGTH:(CM) (FMS)		
DATE CORED: (D,M,Y.)				CARE PENETRATION: (CM)		
REMARKS: (odor, bedding, shells structures, mottling, accessories, ect.)	TEST Type,	D E P TH	CORE SKETCH (Visual structures)	COLOR		
		120		5GY 4/1		
		-				
		-				
		-				
		110				
		-				
		-				
		-				
		122				
		-				
		-				
		-				
		130				
		-				
		-				
		-				
		140				
		-				
		-				
		-				
		150				
		-				
		-				
		-				
		160				
		-				
		-				
		-				
		170				
		-				
		-				
		-				
		180				
		-				
		-				
		-				
		190				
		-				
		-				
		-				
		200				
				7		

## OCEANOGRAPHIC LABORATORY LOG SHEET

85

LOG DATE	PROJECT NO.	DATE LOGGED IN:	
SAMPLE NO.:	SECTION NO.	MEASURER TYPE:	
LATITUDE:	LOCATION:	CORE DEPTH (M) (FMS.)	
LONGITUDE:	CORE PENETRATION (CM)		
DEPTHS (C.S.H.Y.)	TEST STRUCTURE, NOTTLING, ACCESSORIES, etc. O	TEST Type Depth	CORE SEARCH (Visual STRUCTURES)
		200	SGY 41
		210	
		220	
		230	
		240	253-21 230-242
		250	
		260	
		270	
		280	
		290	
		300	
		310	
		320	
		330	
		340	
		350	
		360	
		370	
		380	
		390	
		400	
		410	
		420	
		430	
		440	
		450	
		460	
		470	
		480	
		490	
		500	
		510	
		520	
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		620	
		630	
		640	
		650	
		660	
		670	
		680	
		690	
		700	
		710	
		720	
		730	
		740	
		750	
		760	
		770	
		780	
		790	
		800	
		810	
		820	
		830	
		840	
		850	
		860	
		870	
		880	
		890	
		900	
		910	
		920	
		930	
		940	
		950	
		960	
		970	
		980	
		990	
		1000	

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG NO.

PROJECT NO.

253

DATE LOGGED IN:

SAMPLER TYPE

SAMPLE NO: 2

SECTION NO.

LATITUDE:

LOCATION: *Papua New Guinea*

WATER DEPTH: (M)

(FMS)

LONGITUDE:

CORE LENGTH: (CM) 197

DATE CORED: (D, M, Y.)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect.)TEST  
Type,  
depthD  
P  
RCORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)Clayey silt with very fine  
sandL.L.B.  
P.I.  
Moist.P  
RCLAY  
D.G. SIK.

N-2

D.G. SIK.

0-10

Clayey Silt

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

180

190

200

210

220

230

240

250

260

270

280

290

300

310

320

330

340

350

360

370

380

390

400

410

420

430

440

450

460

470

480

490

500

510

520

530

540

550

560

570

580

590

600

610

620

630

640

650

660

670

680

690

700

710

720

730

740

750

760

770

780

790

800

810

820

830

840

850

860

870

880

890

900

910

920

930

940

950

960

970

980

990

1000

Clayey silt with very fine  
sandMoist.  
L.L.B.  
P.I.P  
RCLAY  
D.G. GraySGY-41  
D.G. Gray

77-87

Silty Clay

P  
RP  
R

# OCEANOGRAPHIC LABORATORY LOG SHEET

8

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY: AGHSTETTER PROJECT NO. SUBSOME #254

SAMPLE NO: 3 SECTION NO.

LATITUDE:

LOCATION: SOLOMONS ISL. MD.

LONGITUDE:

DATE CORED: (D, M, Y.)

DATE LOGGED IN:

SAMPLER TYPE P.V.C.

WATER DEPTH: (M) (FMS)

CORE LENGTH: (CM) 270

CORE PENETRATION: (CM)

TEST Type, depth	D E P H	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
CLAYEY SILT - FINE SAND	Hoist.	-	N-2		0 - 10	CLAYEY SILT
SMALL CLAMS	L.L.	-	GRAYISH			
	6	-	BLACK			
	P.I.	-	-			
	10	-	-			
	20	-	-			
	30	-	-			
	40	-	-			
	50	-	-			
	60	-	-			
	70	-	-			
	80	-	-			
	90	-	-			
	100	-	-			

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY: A.GHSTETTER

PROJECT NO.

SAMPLE NO:

SECTION NO.

LATITUDE:

LOCATION:

LONGITUDE:

DATE CORED: (D, M, Y.)

DATE LOGGED IN:

SAMPLER TYPE

WATER DEPTH: (M)

(FMS)

CORE LENGTH: (CM)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells structures, mottling, accessories, ect.)	TEST Type, depth)	D E P T H M E T R I C	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
		110					
		120					
		130					
SILTY CLAY - VERY FINE SAND	Moist.	140		GRAY	34Y.41	130 - 140	SILTY-CLAY
	L.L.	150			Dr. ALESENCH		
	s	160					
	P.T.	170			GRAY		
		180					
		190					
		200					

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY:

SAMPLE NO.:

LATITUDE:

LONGITUDE:

DATE CORED: (D, M, Y.)

PROJECT NO.

SECTION NO.

LOCATION:

DATE LOGGED IN:

SAMPLER TYPE:

WATER DEPTH: (M)

(FMS)

CORE LENGTH: (CM)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect.)TEST  
Type  
depth)D  
E  
P  
HCORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)

20

220

240

260

280

300

320

340

CLAYGY SILT-FINE TO MEDIUM  
SAND

Moist

L.L.

S

P.T.

56Y-41

DR. GREENISH

GRAY

CLAYEY SILT

360-270

Y

Y

R. Geiger

SAMPLE NO. 254

TEST NO.

SAMPLER TYPE

DATE LOGGED IN: 28 July 1965

SAMPLER TYPE: P.V.C. - PISTON

LATITUDE:

LOCATION: Solomons, Md

WATER DEPTH: (M) 24.69 (FMS) 13

LONGITUDE:

DATE CORED: (D.M.Y.) 18 JUNE 65

CORE LENGTH: (CM) 187 CM.

CORE PENETRATION: (CM) 254.00

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, etc.)TEST  
Type,  
depth)CORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(V. small)

Homogenous 5.1% Clay with  
some fine sand throughout sample.  
Shell fragments increases  
with depth thru out  
sample.

10

N2  
Grayish Blk

20

254-11 10-20

30

254-12 30-40

40

50

254-13 50-60

60

70

254-14 70-80

80

90

254-15 90-100

100

80-91 CM - Relatively Fine light  
concentration of shellfrag.  
up to approximately 0.5 CM.  
in diameter

L.L.B.  
P.I.

## OCEANOGRAPHIC LABORATORY LOG SHEET

MAN BY: G. R. Gilmer

PROJECT NO.

SAMPLE NO: 4

SECTION NO.

LATITUDE:

LOCATION:

LONGITUDE:

DATE LOGGED IN: 28 July 1965

SAMPLER TYPE

WATER DEPTH: (M)

(FMS)

CORE LENGTH: (CM)

DATE CORED: (D, M, Y.)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells structures, mottling, accessories, ect. o)	TEST Type, depth)	D E P R H	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (V, small)
Homogenous - Silty Clay with very little sand				SGY 4/1 DG. Gray			S. Hy. Clay
110 - Small zone of shell fragments about 1/2 of 1%		110 115 119			254-16	110-120	
		120					
		125					
		130			254-17	130-140	
		135					
138-155 CM. Very high Concen- tration of coarse shell fragment up to approximately 3.7 cm.		140 145 150 155	# # # # # # # # # # # # # # # # # # # #		254-18	150-160	
		160			254-19	160-170	
		165					
		170					
		175					
184-187 CM. High CONCEN- TRATION of coarse shell fragments up to 3 1/2 CM. in diameter. Also fine sand.		180 185 187	sh. frag. X # # # # # 187 cm.		254-20	180-187	
		190					
		195					
		200					
		205					
		210					
		215					
		220					
		225					
		230					
		235					
		240					
		245					
		250					
		255					
		260					
		265					
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		950					
		955					
		960					
		965					
		970					
		975					
		980					
		985					
		990					
		995					
		1000					



OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY:	PROJECT NO.
SAMPLE NO.:	SECTION NO.
LATITUDE:	LOCATION:
LONGITUDE:	
DATE CORED: (D,M,Y.)	

**DATA LOGGED IN:**  
**SAMPLER TYPE**  
**WATER DEPTH: (M)** (FMS)  
**CORE LENGTH: (CM)**

**CARE PENETRATION: (CM)**

REMARKS: (odor, bedding, shells structures, mottling, accessories, etc.)	TEST (Type, depth)	D S P H	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (V. small)
105-157 Silty Clay with some sand, however the sand content increases with depth. Some shell fragments also occur.		-		57 3/4			
120-130 Concentration of large shell fragments varying in sizes up to approximately .05 cm in diameter.		110			254-7	120-130	Silty clay with some sand
		120					
		130			254-8	130-140	
		140					
		150			254-9	150-157	
much sandier than above		157 CM.					↓



OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY: "Times" PROJECT NO. 264

SAMPLE NO: B.S.3

**SECTION NO.**

DATE LOGGED IN: 10/14/1965

SAMPLER TYPE P. V. C

WATER DEPTH: (M) 19.8 (FMS) 10.4

**CORE LENGTH: (CM)**

LATITUDE: 29° 1.9' N

LONGITUDE: ~~89° 4.85 W~~

**LOCATION:** Miss Delta

**CARE PENETRATION: (CM)**

## OCEANOGRAPHIC LABORATORY LOG SHEET

NAME: BEIMES  
SAMPLE NO: B.S. 7PROJECT NO. 264  
SECTION NO.LATITUDE: 29° 1.95' N LOCATIONS: Miss. Delta  
LONGITUDE: 69° 41' WDATE LOGGED IN: 13 Aug 1965  
SAMPLER TYPE VANE GRAVITY  
WATER DEPTH (M) 19.2 (FMS) 10.4  
CORE LENGTH (CM) 102

CORE PENETRATION: (CM)

DATE CORED: (D, M, Y.) 8 Aug 1965

REMARKS: (odor, bedding, shells, structures, mottling, accessories, ect.)	TEST (Type, depth)	D A R P	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
0 - 47 Cm. Tests were performed aboard the U.S.S. Shrike		0		SGY41. Olive Gray			Silty Clay
47-102 Cm. Sent by freight for analysis		-					
Heterogeneous 5.14 8/14		-					
	VANE	-					
	17-27	20					
	VANE	-					
	27-37	30					
	VANE	-					
	37-47	40					
47- 102 Cm. Tests were performed in Goo. Lab. Siltland Maryland 5 Oct 1965	Moist.	50	47-63	N 5 TO N 4			
Silty clay, dark gray carbonaceous thin discontinuous beds	VANE	56-56					
Silty clay, dark gray carbonaceous thin discontinuous beds	56-63	56-63					
Thin black to dark gray beds H2S odor	VANE	66-73					
	66-73	66-73					
	73-80	70					
	VANE	80-87					
	80-87	80-87					
	Moist.	87-95					
	87-95	90					
		100	102 CM.				

**OCEANOGRAPHIC LABORATORY LOG SHEET**

LOG BY: Faines

PROJECT NO. 264

**SAMPLE NO:** P-4

**SECTION NO.**

**LATITUDE:** 52.2' N

**LOCATION:** 19-55 D. H.

LONGITUDE: 089 084' W

DATE LOGGED IN: 25 Oct 1965

SAMPLER TYPE *Threeger Gravity*

WATER DEPTH: (M) 19.81 (FWS) 10

GOBE LENGTH: (cm) 60

**DATE CODED:** (D.M.Y.) 12 24 65

**CARE PENETRATION: (CM)**

REMARKS: (odor, bedding, shells structures, mottling, accessories, ect.)	TEST (Type, depth)	Q F H	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
Homogeneous silty clay with very small traces of manganese and fine sand distributed uniformly through out sample	Size Chem.	-		SYRZ/1	264-80	0-10	Silty Clay
There is also abundance of glauconite specks distributed uniformly through out sample	Size Chem.	-					
	20	-					
	30	-					
	40	-					
46 to 46.5 cm. Concentration of fine sands	Size Chem.	-					
	50	-					
	60	-					
	60.5 CM.	-					



OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY: Grimes PROJECT NO. 264  
SAMPLE NO: P-2 SECTION NO.  
LATITUDE: 28° 58.1' N LOCATION: Miss. Delta  
LONGITUDE: 084° 06.6' W  
DATE CORED: (D, M, Y.) 12 Aug 1965

DATE LOGGED IN: 22 Oct 1965  
SAMPLER TYPE Phleger Gravity  
WATER DEPTH (M) 23.77 (FMS) 13  
CORE LENGTH (CM) 61

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY: GRIMES PROJECT NO. 264

SAMPLE NO: P-1 SECTION NO. ~~1~~LATITUDE:  $28^{\circ} 59' 2'' N$  LOCATION: MISS DeltaLONGITUDE:  $099^{\circ} 05.7' W$ 

DATE CORED: (D, M, Y.) 13 Aug 1965

DATE LOGGED IN: 23 Oct 1965  
SAMPLER TYPE Phleger Gravity  
WATER DEPTH (M) 29.56 (FMS) 16  
CORE LENGTH (CM) 64  
CORE PENETRATION (CM)REMARKS: (odor, bedding, shells  
- silt structures, mottling,  
- clay accessories, ect. OTEST  
Type  
depthD  
E  
PCORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)

Homogenous Silty Clay

chen.  
size

-

N-2

264-33

0 - 10

The color changes are gradual from  
light to dark with depth.

10

Grayish Blk.

↓

10 YR 4/2

20-52 CM. Slight Mottling  
structure increasing with  
depth.

20

N-2

264-34

30 - 40

chen.  
size

30

Grayish Blk.

↓

30 - 40

52-64 CM. Heavy Mottling bed  
chen.  
size

50

10 YR 4/2

264-35

50 - 64

chen.  
size

60

Yellowish Br.

↓

Mixed with

chen.  
size

60

N-2

Grayish Blk.

↓

chen.  
size

64

64 CM.

↓

↓



## GEOGRAPHIC LABORATORY LOG SHEET

LOW PRESSURE S. Grimes PROJECT NO. 364

SAMPLE NO: B.S. 5 SECTION NO.

LATITUDE:  $29^{\circ} 1.7' N$  LOCATION: Miss. DeltaLONGITUDE:  $89^{\circ} 4.3' W$ 

DATE CORED: (D, M, Y.) 9 Aug 1965

DATE LOGGED IN: 9 Aug 1965

SAMPLER TYPE P.V.C.

WATER DEPTH (M) 18.9 (FMS) 9.8

CORE LENGTH (CM) 180

CORE PENETRATION (CM)

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect. OTEST  
(Type,  
depth)D  
E  
P  
TCORE SKETCH  
(Visual  
structures)

COLOR

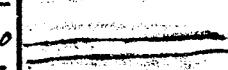
LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)  
Silty clay111-112 cm Dark Yellow-Brown  
streaks

VANE

110



N.Y

Med. DK Gray  
lighter  
than above130-180 - Sediment appears to  
be composed of floes

VANE

130



N.Y

Med. DK Gray  
streaks

VANE

VANE

140



VANE

VANE

150

160-180 Density  
Moisture  
Size  
Chemical

160



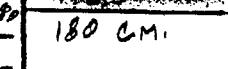
170

170



180

180



174-17 160-180

180 CM.



Sample No.	Section No.	Project No.	Item No.
Log by:	Date Logged in:	Sampler type:	
Latitude:	Core length(cm):	Sample Length(cm):	Penetration(cm):
Longitude:	General Location:		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm
				100
				110
				120
Wood	→			130
				140
				150
				160
				170
	5/17			180
				190
				200

Key: lithology change  
Color change

Sample No. 8  
 Log No. 100-1000-1000-1000  
 Date Logged in: SUBSOME NO. 65  
 Latitude: Sampler type: PVC  
 Longitude: Core length(cm): Sample Length(cm): 221 Penetration(cm):  
 Date: (d-m-y) Aug 24 1965 General Location: SITE #2 Pend Oreille

Remarks: lithology, structure odor, etc	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm
completely homogeneous in color and lithology		LT. OL. 25% shale	-28	0-8
				20
				30
				40
				50
				60
				70
				80
				90
				100
				110
				120
				130
				140
				150
				160
				170
				180
				190
				200
				210
				220
				230
				240
				250
				260
				270
				280
				290
				300
				310
				320
				330
				340
				350
				360
				370
				380
				390
				400
				410
				420
				430
				440
				450
				460
				470
				480
				490
				500
				510
				520
				530
				540
				550
				560
				570
				580
				590
				600
				610
				620
				630
				640
				650
				660
				670
				680
				690
				700
				710
				720
				730
				740
				750
				760
				770
				780
				790
				800
				810
				820
				830
				840
				850
				860
				870
				880
				890
				900
				910
				920
				930
				940
				950
				960
				970
				980
				990
				1000

wood  
Frogs fm

Key: Lithology change  
Color change

107

Sample No.	Section No.	Project No.	Item No.
Log by:	Date Logged in: 22 Jul	Sampler type: PVC gravity	
Latitude:	Core length(cm): 73	Sample Length(cm):	Penetration(cm):
Longitude:	General Location: Pend Oreille Lake		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm
SILTY CLAY THROUGHOUT		LT OLIVE	724	0 - 17
		GRAY		17 - 24
		54 5/2		24 - 31
				31 - 38
				38 - 45
				45 - 52
				52 - 59
				59 - 66
				66 - 73
				73 - 80
				80 - 87
				87 - 94
				94 - 100

Key: lithology change - - - - -  
Color change -----

108

Sample No.	Section No.	Project No.	Item No.
Log by:	Date Logged in:	Sampler type:	
Latitude:	Core length(cm):	Sample Length(cm):	Penetration(cm):
Longitude:	General Location:		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (QSA)	Lab. No.	Depth in Core cm
20.0				
2.10				
wood	— — —			
2.20				
	Bottom of core			
	221 cm			
30				
40				
50				
60				
70				
80				
90				
00				

Key: lithology change - - - - -  
Color change ..... .

109

Sample No. B5-2 Section No. Project No. SCS 520 Item No.  
 Log by: Date Logged in: Aug 21/63 Sampler type: KU/1 GRAVITY  
 Latitude: Core length(cm): Sample Length(cm): Penetration(cm):  
 Longitude: General Location: Peñol ore Hill, Ta Chao  
 Date: (d-m-y) 21 Aug 63

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm
0		LT olive gray		
UPPER 7 cm very sandy Air Pockets throughout core		5Y 5/2	-17	6-13
horz. black streaks				
20				
SILTY clay 0-30				
30				
				-18 30-37
40				
SILTY clay 30-60				
50				
60				
SILTY clay 60-90			79	60-67
70				
77-79 Sand layer with black vertical streaks				
80				
		olive gray		
		5Y 3/2		
90				-20 90-97
SILTY clay 90-120 Black streaks		5Y 5/2		
100				

Key: lithology change - - -  
Color change .....

110

Sample No.	Section No.	Project No.	Item No.
Log by:	Date Logged in:	Sampler type:	
Latitude:	Core length(cm):	Sample Length(cm):	Penetration(cm):
Longitude:	General Location:		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm
				100
Brownish gray 111-112		SYR 4/1		110
green streak		SY 5/2		120
Black ST.			-21	120-127
silty clay 120-150				130
				140
LT BR. GRAY 143-147 WITH BLACK & GR. TRACES		SYR 6/1	Reference sample only	
black streaks		SY 5/2		150
			-22	150-157
silty clay 150-180				160
				170
				180
silty clay 180-200			-23	180-187
black STR-				190
				200

Key: lithology change - - - - -  
Color change .....

Sample No.	Section No.	Project No.	Item No.
Log by:	Date Logged in:	Sampler type:	
Latitude:	Core length(cm):	Sample Length(cm):	Penetration(cm):
Longitude:	General Location:		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm
	200	- - -		
Bottom of Core 207	210			
	220			
	30			
	40			
	50			
	60			
	70			
	80			
	90			
	00			

Key: lithology change - - -  
Color change .....

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG EXP. NO. 111

PROJECT NO. 265

SAMPLE NO. 15

SECTION NO.

LATITUDE:

LOCATION:

LONGITUDE:

DATE CORED: (D,M,Y.)

DATE LOGGED IN:

NOV 13 '65

SAMPLER TYPE:

PHI-PIER

WATER DEPTH: (M)

(FMS)

CORE LENGTH: (CM)

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect. o)TEST  
(Type,  
depth)CORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)517-7 CLAY WITH  
ORGANIC SPECKS  
THROUGHOUT CORE514/1 265-42 0-10  
01.918Y  
514/00-1  
414A  
572/1  
265-4215-16.5 CM band OF  
SILT olive black (6Y2/1)  
in COLOR514/1 265-42 0-10  
01.918Y  
514/00-1  
414A  
572/1  
265-4223-34 CM  
very SOUPY  
NO BLACK STREAKS514/1 265-42 0-10  
01.918Y  
514/00-1  
414A  
572/1  
265-4234 CM  
BOT OF  
core

265-42 24-34

## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG BY: H.Y.C.D.S	PROJECT NO.: 7163	DATE LOGGED IN: 11/15/65			
SAMPLE NO: 14	SECTION NO.: 1	SAMPLER TYPE: Plankton			
LATITUDE:	LOCATION: Pond de l'ile	WATER DEPTH (M): (FMS)			
LONGITUDE:		CORE LENGTH (CM):			
DATE CORED: (D, M, Y.) Aug, 1962		CORE PENETRATION: (CM)			
REMARKS: (odor, bedding, shells structures, mottling, accessories, ect.)	TEST Type, depth)	CORE SAMPLE (Visual structures)	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
51.14 clay with specks of organic material throughout core	10		5Y611	265-44	0-10 silty clay
core is streaked with 3Y 2/1 olive black	20		LT. ONGR.		
throughout core	30				
21-22cm silt zone	40		5Y611		
	50		LT. ONGR.		
43-44cm silt zone	60		5Y611		
	70		decreasing		
	80		40		
	90				
	100				
	110				
	120				
	130				
	140				
	150				
	160	60cm bottom of core	DL91	265-45	50-60
	170				
	180				
	190				
	200				
	210				
	220				
	230				
	240				
	250				
	260				
	270				
	280				
	290				
	300				
	310				
	320				
	330				
	340				
	350				
	360				
	370				
	380				
	390				
	400				
	410				
	420				
	430				
	440				
	450				
	460				
	470				
	480				
	490				
	500				
	510				
	520				
	530				
	540				
	550				
	560				
	570				
	580				
	590				
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	610				
	620				
	630				
	640				
	650				
	660				
	670				
	680				
	690				
	700				
	710				
	720				
	730				
	740				
	750				
	760				
	770				
	780				
	790				
	800				
	810				
	820				
	830				
	840				
	850				
	860				
	870				
	880				
	890				
	900				
	910				
	920				
	930				
	940				
	950				
	960				
	970				
	980				
	990				
	1000				

OCEANOGRAPHIC LABORATORY LOG SHEET  
 LOG BY: KILL, ARCH STEPHEN PROJECT NO. 265  
 SAMPLE NO: 12 SECTION NO.

LATITUDE: LOCATION: Pend Oreille  
 LONGITUDE:  
 DATE CORED: (D.M.Y.) Aug 1985

DATE LOGGED IN: 11/15/65  
 SAMPLER TYPE: Dredge  
 WATER DEPTH: (M)  
 CORE LENGTH: (CM)

CORE PENETRATION: (CM)

REMARKS: (odor, bedding, shells, structures, mottling, accessories, ect. o)	TEST TYPE	DEPTH	CORE SKETCH (Visual structures)	COLOR	LAB. NO.	INTERVAL	SEDIMENT TYPE (Visual)
odor, bedding, shells, structures, mottling, accessories, ect. o					507411	265-49	0-10 SILTY clay
10 cm. lens of organic matter		10		0195			
SILTY CLAY WITH TRACES OF ORGANIC MATTER THROUGHOUT CORE		20		decreasing with depth			
		30		TO			
		40		507411			
46-48 cm. wood chips		46					
		50					
		60					
					265-50	48-50	
					265-51	50-60	
				layer 61.3			
				63.5 cm bottom of core			

GEOL SURVEY OF CANADA  
Brines 13

265

NOV  
12 Oct 1965  
Phleger

115

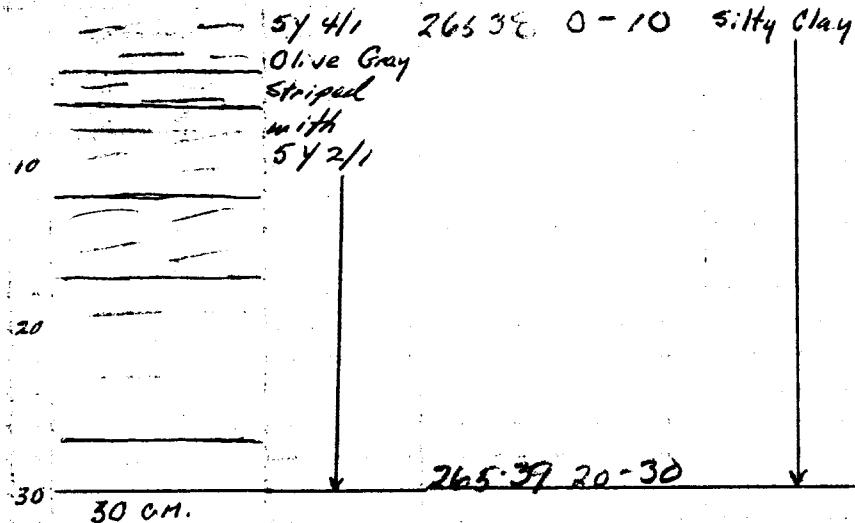
Pend Oreille

14 Aug 1965

Clay, silty, scattered specks  
of organic material  
thin streaks of very silty,  
slightly sandy clay

thin streak of sandy clay

thin streak of plant leaves.





## OCEANOGRAPHIC LABORATORY LOG SHEET

LOG SITE CRIMPS H-1 PROJECT NO.

SAMPLE NO: 11 SECTION NO.

LATITUDE:

LONGITUDE:

265

DATE LOGGED IN: NOV 12, 1965

SAMPLER TYPE Phleger

WATER DEPTH: (M)

(FMS)

CORE LENGTH: (CM)

CORE PENETRATION: (CM)

DATE CORED: (D,M,Y.) 19 AUG 65

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect.)TEST  
(Type,  
depth)D  
E  
P  
R  
HCORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)homogenous silty  
clay with traces  
of organic species  
throughout core

10

OLIVE 265-40 0-10 SILKY

gray

5Y3/2

STRIPED

with

567211

26

30-32 band of  
DT yellowish Brown  
in color

30

10 YR 4/2  
DT YELLOW

965-40 26-35

35cm

BOT. OF CORE

## OCEANOGRAPHIC LABORATORY LOG SHEET

Nov

LOG BY: H. Grimes

PROJECT NO.

265

DATE LOGGED IN: 10 Oct 1965

SAMPLE NO: 9 SECTION NO.

SAMPLER TYPE Phleger

LATITUDE:

LOCATION:

WATER DEPTH: (M)

(FMS)

CORE LENGTH: (CM) 118

CORE PENETRATION: (CM)

LONGITUDE:

DATE CORED: (D, M, Y.)

REMARKS: (odor, bedding, shells  
structures, mottling,  
accessories, ect.)TEST  
(Type,  
depth)D  
E  
P  
HCORE SKETCH  
(Visual  
structures)

COLOR

LAB. NO.

INTERVAL

SEDIMENT  
TYPE  
(Visual)

Homogeneous silty clay with traces of organic specks thru out sample.  The organic specks appears to be about 50 % of the total sample.	size	-	-	5Y 5/1	265-35	0 - 10	Silt, Clay
	chem.	-	-	7.5Y 5/1			
	-	-	-	7.5Y 3/2			
	-	-	-	Olive Gray			
	-	-	-	Banding			
	-	-	-	-	5Y 5/1		
	-	-	-	-	7.5Y 5/1		
	-	-	-	-	-		
	-	-	-	-	-		
	-	-	-	-	-		
70 - 70.5 cm. Band of grayish Olive in color probably a silt zone	50	-	-	-	265-36	50 - 60	
	60	-	-	-	-		
	70	-	-	10Y 4/2			
	80	-	-	6.5Olive			
	90	-	-	Band			
	100	-	-	-	-		
	-	-	-	-	-		
	-	-	-	-	-		
	-	-	-	-	-		
	-	-	-	-	-		



BS-6

NOL - SUBSUME

BS-6

Stiles & Hall

Site (ex H.11) Date Logged: 20 Aug 65 Sampler type: PVC Free Fall (gravity)  
Core length(cm): 9' 6" Sample Length(cm): 260 Penetration(cm): 430  
General Location: Lake Pend Oreille Bayview Idaho.  
Date: Aug 19 65

121

Sample No.	Section No.	Project No.	Item No.
Date:	Date Logged (int)	Sampler type:	
Latitude:	Core length(cm):	Sample Length(cm):	Penetration(cm):
Longitude:	General Location:		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm	Type of Test
NOTE: homogeneous clay to bottom of core section, 10° black streaks (horizontal to 10° throughout.)		545/2	-7	104-111	JAR
homogeneous clay	130		-8	120-127	
dk streaks	140		-9	134-141	L.L.G.P.I.
150					
150-180 homo. clay					
160					
black streaks	170				
180					
190					
200					

Key:    lithology change  
          Color change

Sample No.	Section No.	Project No.	Item No.
Log by:	Date Logged in:	Sampler type:	
Latitude:	Core length(cm):	Sample Length(cm):	Penetration(cm):
Longitude:	General Location:		
Date: (d-m-y)			

Remarks: lithology, structure, odor, etc.	Core Sketch	Color Code (GSA)	Lab. No.	Depth in Core cm	Type Test
		545/2			
200			- 14	210-217	215-221 L.L.G P.I.
210 Green lens					
220					
wood 230			- 15	224-231	
240					
black streaks (more silt than above) 250					
silty clay			- 16	253-260	
260					
Bottom					
270					
280					
290					
300					

Key: lithology change - - -  
Color change 